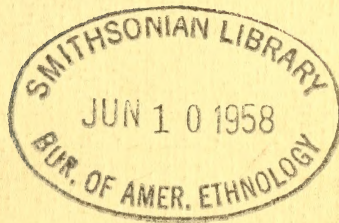


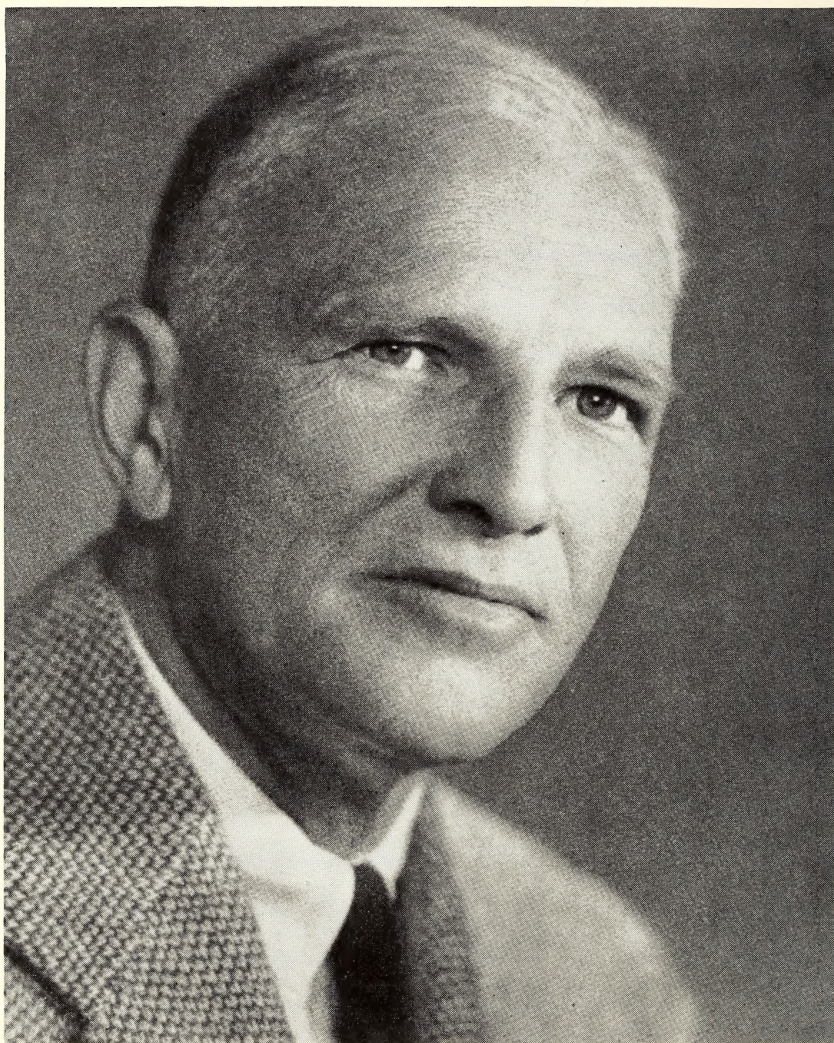
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ANNUAL REPORT

1957



Chicago Natural History Museum



GEORGE A. RICHARDSON

Member of the Board of Trustees from 1930 to 1957

AFTER THIS ANNUAL REPORT HAD GONE TO
PRESS, NEWS WAS RECEIVED OF THE DEATH
OF MR. RICHARDSON ON APRIL 15, 1958

CHICAGO NATURAL HISTORY MUSEUM

Report of the Director

to the

Board of Trustees

for the year 1957



CHICAGO, ILLINOIS

1958

PRINTED IN THE UNITED STATES OF AMERICA
BY CHICAGO NATURAL HISTORY MUSEUM PRESS

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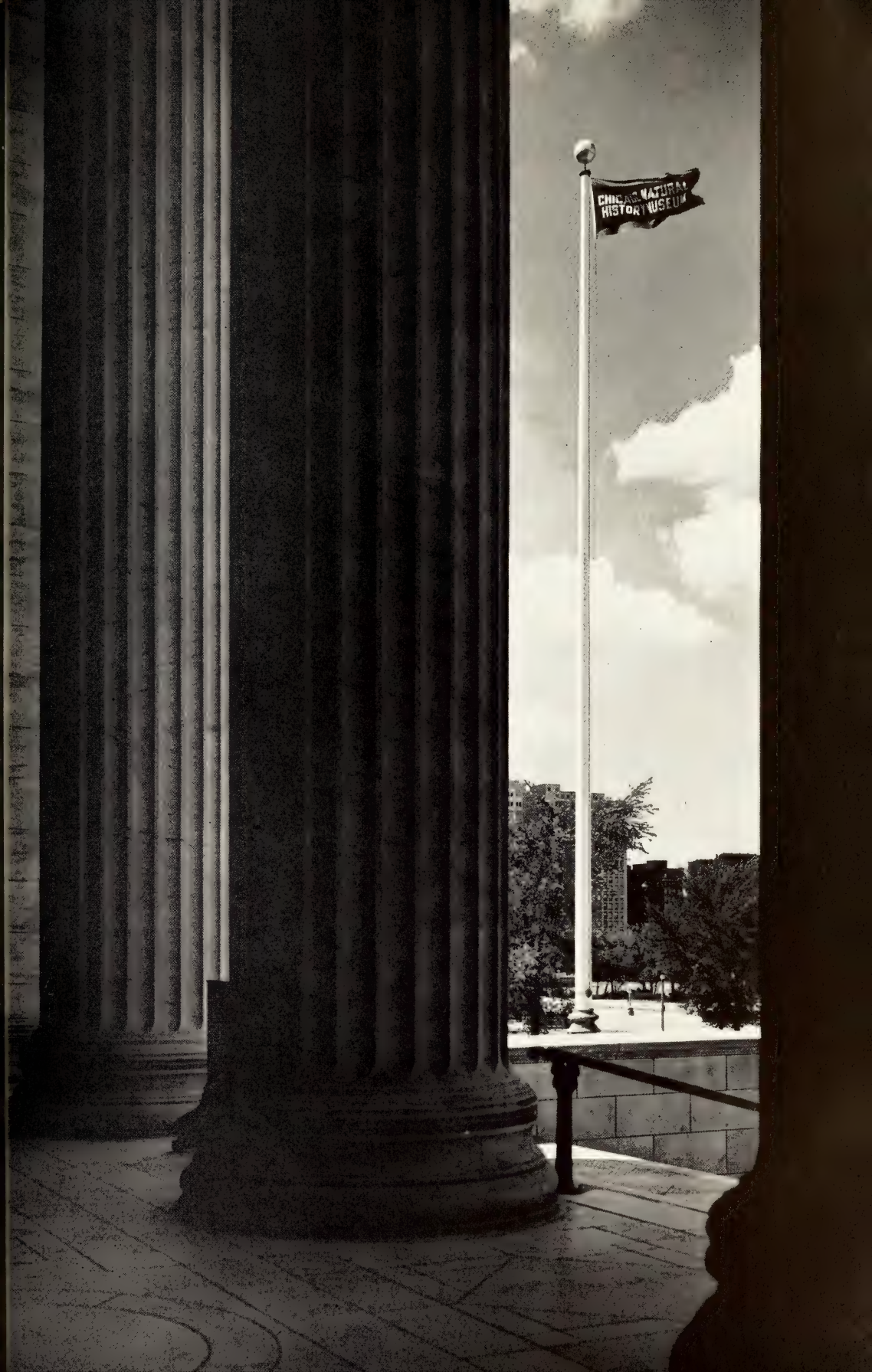
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Pension—Hughston M. McBain, Sewell L. Avery, John G. Searle, John T. Pirie, Jr.

* resigned

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JOHN R. MILLAR, Deputy Director
E. LELAND WEBBER, B.B.Ad., C.P.A., Executive Assistant

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DONALD COLLIER, Ph.D., Curator, South American Archaeology and Ethnology
GEORGE I. QUIMBY, A.M., Curator, North American Archaeology and Ethnology
JOHN B. RINALDO, Ph.D., Assistant Curator, Archaeology
ELAINE BLUHM, Ph.D., Assistant, Archaeology*
KENNETH STARR, Ph.D., Curator, Asiatic Archaeology and Ethnology
ROLAND W. FORCE, M.A., Curator, Oceanic Archaeology and Ethnology
PHILLIP H. LEWIS, M.A., Assistant Curator, Primitive Art
EVETT D. HESTER, M.S., Thomas J. Dee Fellow, Anthropology
ALLEN S. LISS, A.B., Assistant, Anthropology
ALFRED LEE ROWELL, Dioramist
GUSTAF DALSTROM, Artist
WALTER BOYER, B.F.A., Ceramic Restorer
WALTER C. REESE, Preparator
AGNES H. McNARY, B.A., Departmental Secretary*
VIRGINIA B. TURNER, A.B., Departmental Secretary

ROBERT J. BRAIDWOOD, Ph.D., Research Associate, Old World Prehistory
FAY-COOPER COLE, Ph.D., Sc.D., LL.D., Research Associate, Malaysian Ethnology
MIGUEL COVARRUBIAS, Research Associate, Primitive Art†
A. L. KROEBER, Ph.D., Research Associate, American Archaeology
J. ERIC THOMPSON, Dipl.Anth.Camb., Research Associate, Central American Archaeology

DEPARTMENT OF BOTANY

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B. E. DAHLGREN, D.M.D., Curator Emeritus
JULIAN A. STEYERMARK, Ph.D., Curator, Phanerogamic Herbarium
J. FRANCIS MACBRIDE, Curator, Peruvian Botany
FRANCIS DROUET, Ph.D., Curator, Cryptogamic Herbarium
JOHN W. THIERET, Ph.D., Curator, Economic Botany
J. S. DASTON, Sc.D., Assistant, Botany

* resigned

† deceased

DEPARTMENT OF BOTANY (CONTINUED)

EMIL SELLA, Curator of Exhibits
SAMUEL H. GROVE, JR., Artist-Preparator
FRANK BORYCA, Technician
WALTER HUEBNER, Preparator
MARJORIE FURR, Artist
EDITH M. VINCENT, A.B., Research Librarian
MARILYN JASKIEWICZ, Departmental Secretary

E. P. KILLIP, A.B., Research Associate, Phanerogamic Botany
DONALD RICHARDS, Research Associate, Cryptogamic Botany
EARL E. SHERFF, Ph.D., Research Associate, Systematic Botany
HANFORD TIFFANY, Ph.D., Research Associate, Cryptogamic Botany
MARGERY C. CARLSON, Ph.D., Associate, Botany
ARCHIE F. WILSON, Associate, Wood Anatomy

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RAINER ZANGERL, Ph.D., Curator, Fossil Reptiles
ROBERT H. DENISON, Ph.D., Curator, Fossil Fishes
DAVID TECHTER, B.S., Assistant, Fossil Vertebrates
EUGENE S. RICHARDSON, JR., Ph.D., Curator, Fossil Invertebrates
GEORGE LANGFORD, Ph.B., Curator, Fossil Plants
ROBERT K. WYANT, B.S., Curator, Economic Geology*
ALBERT WILLIAM FORSLEV, M.S., Associate Curator, Mineralogy and Petrology
HARRY E. CHANGNON, B.S., Curator of Exhibits
HENRY HORBACK, Assistant
ORVILLE L. GILPIN, Chief Preparator, Fossils
STANLEY KUCZEK, Preparator†
HENRY U. TAYLOR, Preparator
BRUCE ERICKSON, Preparator*
MAIDI WIEBE, Artist
PHYLLIS M. BRADY, Departmental Secretary*
EVELYN SHAHROCK, Departmental Secretary

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ALBERT A. DAHLBERG, D.D.S., Research Associate, Fossil Vertebrates
EVERETT C. OLSON, Ph.D., Research Associate, Fossil Vertebrates
BRYAN PATTERSON, Research Associate, Fossil Vertebrates
R. H. WHITFIELD, D.D.S., Associate, Fossil Plants
VIOLET WHITFIELD, B.A., Associate, Fossil Plants

*resigned

†retired

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KARL P. SCHMIDT, D.Sc., Curator Emeritus†
PHILIP HERSHKOVITZ, M.S., Curator, Mammals
EMMET R. BLAKE, M.S., Curator, Birds
MELVIN A. TRAYLOR, JR., A.B., Assistant Curator, Birds
ROBERT F. INGER, Ph.D., Curator, Amphibians and Reptiles
HYMEN MARX, B.S., Assistant, Reptiles
LOREN P. WOODS, A.B., Curator, Fishes
PEARL SONODA, Assistant, Fishes
RUPERT L. WENZEL, B.A., Curator, Insects
WILLIAM J. GERHARD, Curator Emeritus, Insects
HENRY S. DYBAS, B.S., Associate Curator, Insects
AUGUST ZIEMER, Assistant, Insects
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ALAN SOLEM, Ph.D., Assistant Curator, Lower Invertebrates
D. DWIGHT DAVIS, Curator, Vertebrate Anatomy
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DOMINICK VILLA, Tanner
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ALEX K. WYATT, Research Associate, Insects
LUIS DE LA TORRE, M.S., Associate, Mammals
MARION GREY, Associate, Fishes
WALDEMAR MEISTER, M.D., Associate, Anatomy
EDWARD M. NELSON, Ph.D., Associate, Fishes
KARL PLATH, Associate, Birds
LILLIAN A. ROSS, Ph.B., Associate, Insects
ELLEN T. SMITH, Associate, Birds

† deceased

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GEORG HAAS, Ph.D., Field Associate
HARRY HOOGSTRAAL, M.S., Field Associate
FREDERICK J. MEDEM, Sc.D., Field Associate
DIOSCORO S. RABOR, M.S., Field Associate

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ALMON COOLEY, Assistant Preparator
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THE LIBRARY OF THE MUSEUM

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MARJORIE A. WEST, A.B., Assistant to the Librarian

Classification and Cataloguing

WILLIAM P. FAWCETT, B.A.¶
HOSHIEH TCHEN, Ph.D., Technical Adviser, Oriental Collection

Reference

EUGENIA BERNOFF

Accessions, Binding, Stacks

BORIS IVANOV, Dipl.Law*
GEORGE STOSIUS, M.E.
CONSTANTIN GLOBA, Dipl.Eng.

† deceased

¶ on leave

* resigned

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MARION PAHL, B.F.A., Staff Illustrator

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JAMES R. SHOUBA, Superintendent

GUSTAV A. NOREN, Assistant Superintendent

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LEONARD CARRION, Assistant Chief Engineer

THE GUARD

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MATTHEW S. MORONEY, Captain

† retired

ON NEXT PAGE

AFRICAN ELEPHANTS
IN STANLEY FIELD HALL



Annual Report

of the Director

To the Trustees:

I have the honor to present a report of the operation of the Museum for the year ending December 31, 1957.

Despite the continuing difficulties occasioned by the effects of inflation, the Museum continued to make steady and noteworthy progress in the field of exhibition. Reinstallation of the American Indian exhibits and the exhibits on the cultures of the islands of the Pacific proceeded according to schedule and resulted in unusually attractive displays. Creation of a new Division of Primitive Art in the Department of Anthropology has resulted in drawing attention to the outstanding collections that the Museum has in this field. Popular interest in this subject has been such that it was deemed advisable to emphasize this particular phase of native culture.

Installation in George M. Pullman Hall of a series of exhibits giving a synoptic view of the animal kingdom has been extremely helpful in introducing to students and visitors the entire subject of animal life. The exhibit has been widely acclaimed, and kodachrome slides of the eight screens of the exhibit have been in great demand as teaching aids. Another exhibit that has attracted wide attention is the new bird display in the center of Boardman Conover Hall. Not only is the installation itself carried out in an unusual pattern, but the entire emphasis of the exhibit is on the beauty of the color of the birds. It is noteworthy that specimens from North America

find their proper place in this grouping of colorful birds from all parts of the world. More complete information about the exhibition program is given in the separate reports of the four scientific departments of the Museum.

New records were established for group attendance in the Museum. Many of the groups were aided by Raymond Foundation. On May 17 a new record was established when eighty-nine organized groups came to the Museum in a single day. The record number of groups attending the Museum in any one month was also achieved in May, with 1,104 groups and 51,149 students.

During July and August the film "Through These Doors," which gives a background story of the work of the Museum, was presented on forty-two occasions before a total of 4,574 persons. Many visitors reported increased enjoyment of the Museum because of the effective briefing that they received by viewing the film.

ATTENDANCE

This year's attendance of 1,097,561 at the Museum was about 4,000 less than last year (actually, this was an average of only about two persons a day less than in 1956, as that year, being a leap year, was one day longer). It is well, however, to note the changing pattern of attendance at museums and other cultural institutions. It is recognized that many persons are now content to view television at home rather than make the effort to visit institutions as they did a few years ago. Further, the lack of adequate transportation, particularly on weekends, due to curtailment in service by the Chicago Transit Authority, has been disastrous to the institutions in Grant Park. The discontinuance of service and elimination of the tracks across the Illinois Central Railroad at Roosevelt Road was protested at the time without avail. Our weekend attendance continues to fall, and the increasing numbers of persons coming to the Museum by automobile have taxed parking facilities to the extent that many potential visitors give up their attempt after vainly circling the Museum in search of parking space.

The Museum's response to declining attendance has been met by new programming and special offerings, particularly by Raymond Foundation (see page 24), which brought to the Museum this year almost 40,000 additional school children and 1,300 more teachers. The programs offered by the Museum are reaching many thousands of persons through radio and television and a greatly increased distribution of its published material.

LECTURE PROGRAMS FOR ADULTS

During the year the Museum presented its 107th and 108th Free Lecture Series in James Simpson Theatre of the Museum. These lectures were booked, as usual, on Saturday afternoons in March, April, October, and November under the auspices of the Edward E. Ayer Lecture Foundation. Attendance increased by about 900, total attendance being 16,557, an average of 920 at each lecture.

MEMBERSHIP

At the close of the year the total number of Members of the Museum was 5,503, this being a net gain of 81 for the year. Membership rolls are listed at the end of this Report according to the various membership classifications. Totals by categories are as follows: *Life*—124; *Non-Resident Life*—26; *Associate*—2,140; *Non-Resident Associate*—18; *Sustaining*—50; *Annual*—3,056; *Benefactor*, *Honorary*, *Patron*, *Corporate*, and *Corresponding* (Members in these classes who are not Members in any other class)—23; *Contributor* (Members in this class who are not Members in any other class)—66 (Contributors elected during the year are listed on page 30). The Museum desires to record its sincere appreciation to its Members who, throughout the years, have built up substantially the endowments of the Museum and have contributed generously to its operating funds.

TRUSTEES AND OFFICERS

At the January meeting of the Board of Trustees, Stanley Field was re-elected president of the Museum to serve his forty-ninth consecutive term in that office. Hughston M. McBain was elected first vice-president succeeding the late Marshall Field, whose death in November, 1956, was recorded last year (Annual Report 1956, pages 23–24 and frontispiece). Walther Buchen was elected second vice-president succeeding Mr. McBain. All other officers were re-elected. At the September meeting of the Board, George A. Richardson submitted his resignation as a Trustee because his residence in California makes it impossible for him to render to the Museum the service that he considers adequate. He had been a member of the Board since January, 1930, and had served as member or as chairman of the Auditing Committee during most of his tenure. In accepting his resignation the members of the Board expressed their gratitude for his long and faithful service to the Museum.

JAMES NELSON AND ANNA LOUISE RAYMOND
FOUNDATION FOR PUBLIC SCHOOL AND
CHILDREN'S LECTURES

The year showed a marked increase in use of the Museum and its educational programs by organized groups, most of which were school groups. In 1957, 4,158 organized groups with 178,810 students visited the Museum. Of these, Raymond Foundation assisted 108,484 with group tours and programs. These groups came mainly on regular school-days to study specific subjects. Programs, tours, workshops, and participation programs for the lower grades were offered at the times the school children would be studying these materials. For 5th through 8th grades, the programs were the kind to help students help themselves in studying the exhibits. These programs varied from workshops with their necessary smaller numbers ("From Cave Man to Civilization," 15 programs with 539 students attending, and "Rocks and Minerals," 14 programs with 533 students attending) to programs such as "Ancient Egypt" where as many as 100 students worked together in the exhibition hall.

In the lower grades (1st through 4th) there was a great need for something with more individual participation than a regular tour gives. Thus three new programs were planned to allow such participation: (1) "Learning about Insects," a round-table program on observing common insects—16 programs with 557 students; (2) "How Living Things Survive Weather Changes," a program using an artificial tree to show how plants and animals prepare for winter (the tree was patterned after one exhibited in the small museum at the Morton Arboretum, Lisle, Illinois)—32 programs with 1,368 students; (3) "Christmas for the Birds," a program introducing the children to our common winter birds and presenting ideas about using the family Christmas tree as a feeding place for birds—8 programs with 341 students. In all, 216 special school-programs were given, with a registration of 11,684 students from 65 suburban schools and 200 Chicago schools. In addition to programs and tours for school groups, other organized groups included Camp Fire Girls, Girl Scouts, Boy Scouts, and YMCA groups. "Expedition Cave Man" was taken in the spring by 2,041 Girl Scouts and 83 Camp Fire Girls, while "Expedition to Indian Country" was taken in the fall by 803 Camp Fire Girls. "Seal Hunt," a summer program offered to YMCA groups, was given 11 times to a total of 663 children.

Museum Journeys were continued as a program for individual children alone or with family groups. Journeys during the year, each available for two months, were: winter Journey (No. 8) of



Girl Scouts on "Expedition Cave Man"

1956-57, "Holiday-Animal Hunt," carried over into 1957 with 95 participating in January; the spring Journey (No. 9) "A Hunt with the Cave Men" totaled 649 completed; the summer Journey (No. 10) "Around the World on Wings" totaled 146 completed; the fall Journey (No. 11) "Exploring Indian Country" totaled 348 completed; and the winter Journey (No. 12) "Animals in Winter," which carried over into 1958, totaled 66 completed in 1957. A total of 32 boys and girls completed four Journeys successfully in 1957 and were presented with the Museum Traveler Award. A total of 13 boys and girls completed a second group of four Journeys successfully and were presented with the Museum Adventurer Award.

The motion-picture programs for children continued on Saturday mornings in March and April—9 programs with 6,532 present, on Thursday mornings in July and August—12 programs with 9,800

present, and on Saturday mornings in October and November—9 programs with 3,039 present. As in the past, Museum Stories were prepared and distributed to the children who attended the spring and fall Saturday-morning movies (the spring series was “From Cave Man to City Dweller” by Edith Fleming and the fall series was “Indian Neighbors of Our United States Settlers” by Harriet Smith). Extension-lecture service for the Chicago public schools was continued in January, February, and March, with 39 lectures presented to a total of 12,991 students. This service will be limited in the future because of the increasing numbers of students visiting the Museum.

A course on conservation was presented in April for Adult Girl Scout Leaders. This program was requested to help the leaders understand the meaning of conservation so that they in turn could train their Girl Scouts.

Raymond Foundation’s activities for 1957 (see summary below) totaled 121,475 persons in 2,367 groups, an increase of more than 8,000 persons over the 1956 figures. October was the month when the greatest numbers of persons in groups were assisted by Raymond Foundation; in fact, October broke all such records for any month, with 8,958 children on school tours. Many organized groups of students came to the Museum who did not need or were not able to get the assistance of Raymond Foundation guides. During ten months of 1957 there was a total of 215 groups (with an approximate total of 7,682 students) on waiting lists for possible cancellations of reservations for tours or programs. A summary of activities of Raymond Foundation for the year, with attendance figures, follows:

ACTIVITIES WITHIN THE MUSEUM

For children	Groups	Attendance	Groups	Attendance
Tours in Museum halls.....	1,339	50,395		
Lectures preceding tours.....	589	28,804		
Motion-picture programs....	30	19,371		
TOTAL.....			1,958	98,570
For adults				
Tours in Museum halls.....	319	5,055		
Lectures preceding tours.....	9	285		
“Through These Doors” (film)	42	4,574		
TOTAL.....			370	9,914

EXTENSION ACTIVITIES

Chicago Public Schools.....	39	12,991		
TOTAL.....			39	12,991
TOTAL FOR RAYMOND FOUNDATION ACTIVITIES.....			2,367	121,475

THE N. W. HARRIS PUBLIC SCHOOL EXTENSION

In accordance with long-established procedures the Department of the N. W. Harris Public School Extension operated normally during the year in lending portable Museum exhibits and circulating them from school to school throughout the city. A total of 17,510 of the department's standard portable exhibits was delivered on routine schedule. The two trucks maintained by the department were in operation 171 days and traveled 11,420 miles.

At the beginning of the year 1,032 exhibits were out on loan to 516 schools and public-service institutions on the circulation list. On every tenth school-day the two exhibits held by each school (or other institution) were exchanged for two others. The sixteen exchanges made in addition to the initial loan-delivery of the school-year gave each school thirty-four different exhibits within the year. Pick-up of all exhibits at the end of the school-year for cleaning and summer storage in the Museum began on June 10 and was completed on June 25. Delivery of the first exhibit-loans of the school-year began on September 9 and ended on September 25. At the end of December the circulation list totaled 517. Over the twelve-month period five schools had been dropped from the list, while five others and a boys' club had been added.

Rotation of the exhibits is planned to avoid repetition of exhibits at an elementary school during the years any one child is in attendance. Repetition may occur, however, as a result of emergency substitutions for exhibits stolen or destroyed in schools and for those removed from circulation for repair. In 1957 one exhibit (broad-winged hawk) was stolen from a school, and thirty exhibits were temporarily withdrawn from circulation because of glass breakage or (in four) damage to the installation.

Nine new exhibits that had been almost completed by Preparator Albert J. Franzen before his death in October were finished in December and installed in portable cases. Four are duplicates of exhibits completed in 1956—one identifies squirrels found in and near Chicago (flying squirrel, fox squirrel, gray squirrel, and red squirrel) and three are concerned with ground-squirrels (chipmunk, striped gopher, and gray gopher). The five other new exhibits contrast a cultivated blueberry (Burlington) with a low-bush blueberry common in our area. Workshop repairs of cases and installations were made on 506 exhibits.

No other museum makes available to its community a lending service of such magnitude as that offered by this Museum through Harris Extension. Over the years many museum representatives

have come from other cities for information and guidance in establishing similar services. A gratifying report of the results of such consultations back in 1946 came in October when Ram S. Singh, Chief Taxidermist for the British Guiana Museum in Georgetown, British Guiana, revisited our department and told us of progress in his country toward duplicating for rural schools the service established for Chicago by our Museum. Mr. Singh's account of the British Guiana program and its significant contribution to science education in his country makes this department proud that as pioneer and leader in its field it can offer some help and encouragement to other museums that undertake similar responsibilities in their own communities and districts.

As always, birdskins in plastic tubes were the popular studykit material borrowed by teachers and study groups. This year 336 birdskins were checked out from the storage files for varying periods of time. Other such materials loaned during the year to teachers were insect-cases and rock and shell collections.

CAFETERIA AND LUNCHROOM

An increase of more than 4,000 persons making use of the Museum's restaurant facilities brought the total for the year to 241,586. A large increase was recorded in the lunchroom, which specializes in rapid service of standard food-items. Sales by vending machines, which make soft drinks available at hours when our other restaurant facilities are closed, almost tripled the sales of soft drinks and contributed to the considerable increase in gross receipts.

THE BOOK SHOP

Book Shop sales during 1957 were \$141,109.36, a record for annual sales. This figure is indicative of the increasing service performed by the Museum in supplying interested persons with information in the fields of study encompassed by the Museum. For many years The Book Shop has distributed the popular four-page Museum Stories written for children by staff members of Raymond Foundation. During 1957 two series of stories were reprinted in small-book form (see page 94). It is anticipated that this Museum Storybook series will ultimately provide a body of reading material for children of elementary-school age similar to that offered to older readers by the Popular Series of the Museum.

GIFTS TO THE MUSEUM

The Museum received a bequest of \$12,500 from the estate of the late Stewart J. Walpole, and the Stewart J. Walpole Endowment Fund was established in his memory. Mrs. Stanley Field, a Benefactor of the Museum, added \$21,500 to the Sara Carroll Field Fund. Dr. Maurice L. Richardson added \$1,250 to the Maurice L. Richardson Paleontological Fund; C. Suydam Cutting, an Honorary Member of the Museum, added \$750 to the C. Suydam Cutting Fund; Miss Margaret Conover added \$665 to the Conover Game-bird Fund (established by her brother, the late Boardman Conover, Trustee and Research Associate); and Harry Vearn Clyborne added \$100 to the Harry Vearn and Mary Elizabeth Clyborne Fund. The Museum received \$763.93 from the estate of the late Mrs. Abby K. Babcock and \$30.15 (for the Martin A. and Carrie Ryerson Fund) from the final distribution of the William Dwight Darrow Trust Fund.

Stanley Field, President of the Museum, gave an additional \$30,327.50 for endowment. A grant of \$5,000 was received from Eli Lilly and Company, of Indianapolis, to assist in our program of botanical publication; Mrs. Hermon Dunlap Smith gave \$500 toward a special publication on birds; and S. C. Johnson and Son, Incorporated, of Racine, Wisconsin, gave \$4,000 for our continuing study of waxy palms. To obtain the Captain A. W. F. Fuller Collection of Ethnological Specimens from the Pacific Islands, a Purchase Fund was established, which, during the year, received a total of \$19,405 from the following donors: George A. Bates, Wm. McCormick Blair, Walther Buchen, Walter J. Cummings, Joseph N. Field, Marshall Field, Jr., Henry P. Isham, Hughston M. McBain, William H. Mitchell, Sterling Morton, Clarence B. Randall, John G. Searle, Solomon A. Smith, Louis Ware, and John P. Wilson. Gifts of securities were received from Joseph H. King to the value of \$2,087.50 and from Gaylord Donnelley to the value of \$528.13.

The American Friends of China (Chicago) gave \$2,082.18 as a memorial to the late Dr. Berthold Laufer (see pages 43 and 74). Additional gifts to the Commander Frank V. Gregg Memorial Fund were received from Dr. Clifford C. Gregg, Dr. Paul S. Martin, and Trustee Louis Ware. Other gifts of funds came from Hamilton Allport, Adelbert Brown, Peder A. Christensen, Gaylord Donnelley, Flexible Steel Lacing Company, Brimson Grow, William Heuer, Edgar Heymann, John Plain Foundation, Hughston M. McBain, National Society of Colonial Dames of America (Illinois), Mrs. Langdon Pearse, John T. Pirie, Jr., Henry Pope, Jr., Mr. and Mrs. Reuben Schutz, Mrs. Margaret Brown Trimble, and James Willard.

Those who have given \$1,000 to \$100,000 in money or materials are elected Contributors by the Board of Trustees (see page 119 for roster of Contributors). Contributors elected are: Dr. William R. Bascom, Holly Reed Bennett, Rudyerd Boulton, Walter J. Cummings, Dr. David C. Graham, Dr. Clifford C. Gregg, Henry P. Isham, Joseph H. King, Dr. Paul S. Martin, William H. Mitchell, Philip Pinsof, Solomon A. Smith, Stewart J. Walpole (posthumously elected), and Louis Ware. Gifts of materials received during the year are listed at the end of this Report (see page 108) and under the heading "accessions" in the reports of the scientific departments.

The Karl P. Schmidt Library was bequeathed to the Museum. This unusual collection of books is remarkably complete in its coverage of the herpetological literature and also includes travel literature in connection with natural-history studies (see page 71).

SPECIAL EXHIBITS

Outstanding among special exhibits on display during the year in Stanley Field Hall were four that called attention to recent important additions to the Museum's study collections. These were: materials collected by Roland W. Force, Curator of Oceanic Archaeology and Ethnology, and Mrs. Force in the Palau Islands and given to the Museum (see page 42); portraits of human types in Central America and Indonesia by Elisabeth Telling, presented by her to the Museum (see Annual Report 1956, page 42); spectacular stag and scarab beetles from the collection of the late Dr. Eduard Knirsch of Vienna, purchased by the Museum (see page 64); and a representative selection of Chinese rubbings collected by Dr. David C. Graham and given to the Museum (see page 43). The later exhibit was timed to coincide with meetings of the American Anthropological Association in Chicago in December (see page 83), as was an exhibit of sacred mushrooms of Mexico, the hallucinogenic fungi currently being investigated for possible medical uses.

An exhibit in November to show food plants of New World origin contained food plants of common worldwide acceptance and use as well as many whose cultivation is still largely limited to areas where they were grown at the time of Columbus. Insects embedded in plastic by Julius J. Nagy, drawings of cultivated flowers by Ethelynde Smith, and the now perennial exhibitions of nature photography, handcrafted gems and jewelry, and drawings by students of the Art Institute of Chicago, whose classes meet in the Museum, were other special attractions during the year.

MEXICAN SACRED MUSHROOMS

**PSILOCYBE
CUBENSIS**



**PSILOCYBE
CAERULESCENS**

**PSILOCYBE
MEXICANA**

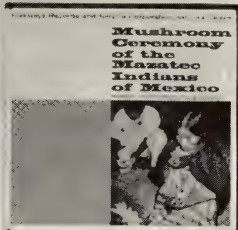


IN SOUTHERN MEXICO SACRED MUSHROOMS ARE RAISED USING SECRET DEFENSIBLES HELD IN THE HOMES OF CURANDEROS. SEVERAL CLOSELY RELATED SPECIES OF MUSHROOMS ARE USED FOR THIS PURPOSE SOME ARE OF LOCAL OCCURRENCE BUT OTHERS ARE WIDELY DISTRIBUTED. THE ACTIVE PRINCIPLES WHICH GIVER THEIR VOICE, GIVE THEM MAGICAL EFFECTS AND THEIR HEAVY SWEET SMELL. RESEARCH HAS NOT YET BEEN ISOLATED. VARIOUS ARTS, RESEARCH LABORATORIES HERE AND ABROAD ARE NOW WORKING THERE HOPEFULLY TO REVEALING THEIR POSSIBLE USE IN MEDICINE.

**PSILOCYBE
CAERULESCENS**



CURANDERA DURING SECRET CEREMONIES



THESE MUSHROOMS ARE
USUAL SPECIES



THESE MUSHROOMS ARE OF THE SAME SPECIES

"MEXICAN SACRED MUSHROOMS"

A SPECIAL EXHIBIT
IN STANLEY FIELD HALL

STAFF OF THE MUSEUM

Phillip H. Lewis was appointed Assistant Curator of Primitive Art to establish and develop a Division of Primitive Art in the Department of Anthropology. William P. Fawcett, who was appointed to the staff of the Library in June, was granted a leave of absence in October for military service. Other appointments during the year were: Peter Anderson, Assistant Taxidermist; Mrs. Jane Comiskey, Manager of Book Shop; Mrs. Marjorie Furr, Artist, Department of Botany; Constantin Globa, Library; Raymond A. N. Gomes, Assistant Recorder; Miss Marguerite Grauel, Cashier; Marvin Rabe, Assistant Preparator, Harris Extension; Mrs. Evelyn Shahroch, Secretary, Department of Geology; Miss Eleanor Sheffner, Bookkeeper; Mrs. Virginia B. Turner, Secretary, Department of Anthropology; and Mario Villa, Assistant Taxidermist.

Dr. Alan Solem, Assistant in the Division of Lower Invertebrates, was advanced to Assistant Curator; Miss Marion K. Hoffmann, Acting Auditor, was appointed Auditor by the Board of Trustees; Miss Louise Jones was assigned to the Book Shop as secretary; and Matthew S. Moroney became Captain of the Guard following the retirement of Captain Frank Meinke. Resignations during the year were: Dr. Elaine Bluhm, Assistant, Division of Archaeology; Mrs. Phyllis Brady Donovan, Secretary, Department of Geology; Bruce Erickson, Preparator, Division of Paleontology; Forest Highland, Assistant Recorder; Boris Ivanov, Library; Miss Agnes H. McNary, Secretary, Department of Anthropology; and Robert K. Wyant, Curator of Economic Geology. Stanley Kuczek, Preparator, Department of Geology, retired at the end of the year.

The Museum thanks its faithful volunteer workers for help during the year. Some of them, designated as Research Associates and Associates, are included in the List of Staff at the beginning of this Report. Other volunteers are: Howard Anderson, Edward Brennan, C. Gilbert Cash, Teddy Czyzewicz, Michael Duever, Mrs. Patricia R. Falkenburg, Robert Fizzell, David Goldberger, Kenneth Jones, William Leja, Mrs. Judith D. Lownes, Richard McClung, Thomas McIntyre, Harry G. Nelson, Thomas Olechowsky, Thomas O'Neill, Miss Patricia E. O'Shea, Philip Porzel, John M. Schmidt, Wayne Shadburne, and Gale Zelnick.

I record with deep regret the death on February 4 of Miguel Covarrubias, of Mexico City, Research Associate in Primitive Art, Department of Anthropology; the death on October 22 of Albert J. Franzen, Preparator and Taxidermist in the Department of the N. W. Harris Public School Extension, who faithfully served the

Museum for thirty years; the death on January 23 of Bruce W. Palfrey, a guard; the death on January 30 of Kenneth Pedersen, of the Division of Maintenance; and the death on February 25 of Mrs. Mary Rzasa, a pensioner, who was retired in 1951 at her own request.

The Museum sustained a great loss in the death in September of Dr. Karl P. Schmidt, Curator of Zoology Emeritus. Dr. Schmidt had been a member of the Museum staff since 1922 and retired as its Chief Curator of Zoology in 1955. In his memory the Board of Trustees adopted the following resolution:

KARL PATTERSON SCHMIDT

1890-1957

"The Board of Trustees of Chicago Natural History Museum received with deep regret the news of the death on September 26, 1957, of Dr. Karl P. Schmidt, Curator of Zoology Emeritus.

"Dr. Schmidt had joined the staff of the Museum in 1922 as Assistant Curator of Amphibians and Reptiles. He had progressed to Chief Curator of the Department of Zoology in 1941 and retired at the end of June, 1955, continuing his scientific work thereafter as Curator of Zoology Emeritus.

"Dr. Schmidt's keen mind reached out into all phases of natural history. He was especially interested in the fields of evolution and ecology, although he had a wide and thorough knowledge of the whole field of zoology beyond his own specialization. His scientific writings had established him as an outstanding zoologist early in his career and honors came to him from all parts of the globe. He was frequently called upon to participate in seminars and panel discussions both in this country and abroad, and messages of regret continued to reach the Museum from distant points for more than a month after his death.

"His interest in the training of younger scientists was pronounced, and a significant number of outstanding persons working in the field of zoology today have been influenced by their contacts with Dr. Schmidt.

"Now, therefore, be it resolved that the members of the Board of Trustees express their deep sense of loss at his passing and cause this resolution to be recorded in the minutes of the Board of Trustees and a copy to be sent to his widow."

EXPEDITIONS AND FIELD TRIPS IN 1957

The Museum conducted sixteen expeditions and field trips in 1957. Their work is described in this Report under the headings of the scientific departments (see page references below).

Expeditions and field trips of 1957 and their leaders are:

DEPARTMENT OF ANTHROPOLOGY—*Great Lakes Area Archaeological Field Trips* (George I. Quimby, Curator of North American Archaeology and Ethnology, see page 40); *Southwest Archaeological Expedition* (Dr. Paul S. Martin, Chief Curator of Anthropology, see page 37 and following)

DEPARTMENT OF BOTANY—*Ginkgo Petrified Forest State Park Field Trip* (Dr. Theodor Just, Chief Curator of Botany, see page 47); *Illinois Botanical Field Trips* (Dr. John W. Thieret, Curator of Economic Botany, see page 48)

DEPARTMENT OF GEOLOGY—*Central America Volcanological Expedition* (Dr. Sharat K. Roy, Chief Curator of Geology, see page 52); *Indiana Paleontological Field Trips* (Dr. Rainer Zangerl, Curator of Fossil Reptiles, see page 55); *Montana Invertebrate Paleontological Field Trip* (Dr. Eugene S. Richardson, Jr., Curator of Fossil Invertebrates, see page 56); *New York State Paleontological Field Trip* (Dr. Robert H. Denison, Curator of Fossil Fishes, see page 53); *Wyoming Paleontological Expedition* (William D. Turnbull, Assistant Curator of Fossil Mammals, see page 53)

DEPARTMENT OF ZOOLOGY—*Colombia Zoological Expedition* (Kjell von Sneidern, see page 60); *Co-operative Field Work with United States Fish and Wildlife Service in Equatorial Atlantic and Co-operative Field Work with United States Fish and Wildlife Service in Western Caribbean* (Loren P. Woods, Curator of Fishes, see page 60); *North-west Pacific Coast Zoological Field Trip* (Henry S. Dybas, Associate Curator of Insects, see page 60); *Peru Zoological Expedition, 1956-57* (Celestino Kalinowski, see page 60); *Philippine Zoological Field Work, 1956-57* (D. S. Rabor, Field Associate, see page 60); *Western States Zoological Field Trip* (Rupert L. Wenzel, Curator of Insects, see page 60)

DEPARTMENT OF ANTHROPOLOGY

DEPARTMENT OF BOTANY

DEPARTMENT OF GEOLOGY

DEPARTMENT OF ZOOLOGY

Department of Anthropology

Research and Expeditions

The second season of archaeological work near Vernon, Arizona, was initiated by the 1957 Southwest Archaeological Expedition under the leadership of Dr. Paul S. Martin, Chief Curator of Anthropology, who was assisted by Dr. John B. Rinaldo, Assistant Curator of Archaeology (see page 34). Five months were spent in the field. The first few weeks were used in building an addition to camp headquarters. The remainder of the summer was devoted to excavations with a crew of six men.

Six sites, or archaeological areas, were investigated. The two earliest were campsites located on the beaches of now vanished lakes. The ancient hearths, marked by circular piles of burned rocks, had been recently exposed to view by rains and winds (no house floors or early pit-houses were encountered). Work at these sites yielded an abundant collection of manos, metates, projectile points, scrapers, choppers, knives, blades, hammerstones, some burned animal-bones, and charcoal that may yield dates when tested by the radiocarbon method. We believe that these artifacts were made and used by the earliest inhabitants of the area and we have tentatively assigned these specimens to the Concho Complex, which is believed to be from 2,000 to 3,000 years old. Actually, we know little about the culture of the Concho Complex people, but, as we now envision it, the Concho Complex was merely one local environmental specialization of a widely spread culture known as the Desert Culture, which has been very recently delineated and described by Dr. Jesse Jennings. The Cochise substratum of the Mogollon culture described in a half dozen or so Museum monographs also belonged to this larger unit, the Desert Culture, which extended from Oregon to the Valley of Mexico and from the Rocky Mountains to the Pacific Coast.

Another series of excavations was conducted in a pit-house village. Eight houses were dug, some of which were 6 feet deep, 12 feet across, and roundish, with roofs of poles, brush, and a thick layer of native adobe supported by upright posts. The entrance was a hatchway in the roof or a lateral truncated tunnel. A hearth was near or in the center of the floor and a storage pit was in some floors. Excavations in the pit-houses yielded pottery (whole and broken), burials, milling, rubbing, and pecking stones, mortars and pestles, mauls, a fragment or two of shell bracelets, a tubular tobacco pipe of stone, stone projectile points, knives, scrapers, and saws, and bone awls and

needles. The houses and all of the excavated materials show some distinguishing features that may be ascribed to three sources: the Concho Complex, the Anasazi (Pueblo) Complex centered to the north of Vernon, and the Mogollon Complex based to the south and west of Vernon. It is conjectured that the inhabitants of the village were the cultural inheritors and descendants of the Concho beach-dwellers who had been subjected to influences from two more highly developed cultures—the Anasazi and the Mogollon—and who had adopted some aspects of both, although in general the Mogollon traits dominate. Probably the Mogollon people had not yet migrated to this area. A guess-date on this pit-house village would be A.D. 600.

When it was cleared, the fourth site (which was chosen for study because appearances indicated that it was of later date than the pit-house site) revealed a surface pueblo, or village, consisting of a series of four rooms with walls of crude stone masonry. This living arrangement is an abrupt change from the pit-house village and probably represents a diffusion from Anasazi Indians living to the north. Some of the tools and pottery types of the pit-house era had been retained here, but there were a few innovations in tool and pottery types, chief of which was a new black-and-white pottery (Snowflake black-on-white) of unknown antecedents. The conjectured date of this village is about A.D. 900.

The fifth site selected for excavation was occupied about A.D. 1000 to 1100 probably by the Mogollon Indians who were perhaps migrating at this time into this area from the east and south. This village consisted of twelve to fifteen rooms arranged in the cellular fashion of a honeycomb, with a special room, or kiva, set aside for ceremonial purposes. Perhaps forty to sixty people inhabited this pueblo. We did not excavate the village itself because of lack of time, but in the nearby burial mound we uncovered fifteen burials, eight of which were infant skeletons. Eighteen pieces of mortuary pottery were recovered from the graves, eight from the grave of one child. Presumably these pots had contained food offerings for the use of the spirit in the hereafter. The pottery types included plain utility wares as well as Snowflake black-on-white and Reserve black-on-white. The sixth site was an area strewn with potsherds and fragments of stone tools. Extensive trenching was carried on but no houses were found. It is possible that this was merely the site of a way-station or a temporary village.

It is impossible at this time to assess the meaning of all the data collected—one can only feel one's way. When adequate knowledge of the area is obtained, more explicit statements and definite reconstruction can be made. The Museum is proud to acknowledge the



Pueblo pottery excavated near Vernon, Arizona
Southwest Archaeological Expedition, 1957

co-operation of residents in and near Vernon, Arizona, who permitted the Museum scientists to conduct excavations on their ranches: F. Chilcott, Mr. and Mrs. Lester Curtis, Mr. and Mrs. Claude Phipps, Frank Stradling, and Earl Thode. Thanks are also given to neighbors who were constantly helpful and friendly: Charles, Leon, and Milton Gillespie, Leonard Penrod, and Eben Whiting. Their friendship was of lasting benefit to the expedition.

During the first months of the year Assistant Curator Rinaldo prepared an analysis of the pottery and the stone artifacts collected from more than a hundred sites in the vicinity of Vernon, Arizona, during the summer of 1956 and prepared a field report based on this analysis. This study provided a broad outline of the sequence of cultures in the area and was helpful in selecting the sites to be excavated during the 1957 season. He completed a report on the excavation of the Foote Canyon site, a large fourteenth-century pueblo excavated by the Southwest Archaeological Expedition in 1955, and continued collaboration with Chief Curator Martin on a report of the 1957 excavations. Dr. Martin is writing a book that will summarize in nontechnical language the work of the Museum's fifteen

expeditions in New Mexico. He takes the materials preserved by time and good fortune and bit by bit fits them together into a mosaic portraying Mogollon culture from 5000 B.C. to about A.D. 1350.

George I. Quimby, Curator of North American Archaeology and Ethnology, conducted research on problems of archaeology and environment in the Upper Great Lakes region. He made study-trips to museums, universities, and colleges in Wisconsin, Michigan, and Ontario and field trips to northern Wisconsin, the upper peninsula of Michigan, and the north shore of Lake Superior in Ontario (see page 34). During the survey of the north shore of Lake Superior (a joint expedition of this Museum and the Museum of Anthropology of the University of Michigan led by Curator Quimby and Dr. James B. Griffin, Director of the Museum of Anthropology) test excavations were made in an Old Copper site on the shore of Lake Nipigon and in a historic Chippewa site at the mouth of the Pic River. The Chippewa site was unusual in that it contained cord-marked pottery associated with European trade-goods representative of the period around 1700. Research on Upper Great Lakes archaeology and environment has included not only the data of archaeology but also the data of glacial geology, paleontology, pollen analysis, and other divisions of natural science in combination with geochronology and radiocarbon dates. Curator Quimby is writing a book on the results.

Dr. Donald Collier, Curator of South American Archaeology and Ethnology, made progress on analysis of data gathered in 1956 during the archaeological expedition to Peru. Under his supervision Myron Rosenberg and William Shroebel of the Department of Geography, University of Chicago, prepared a detailed map of the Casma Valley (scale of 1:40,000) showing topography, archaeological sites, irrigation canals, and the extent of cultivation at present and in prehistoric times based on aerial photographs and field data collected in 1956. The specimens collected by the expedition reached the Museum at end of June, and wood samples for radiocarbon dating have been sub-

WOMAN OF ROYAL FAMILY
BENIN, NIGERIA, WEST AFRICA

BRONZE CASTING
HEIGHT 17 INCHES

NEWLY EXHIBITED IN HALL E



mitted to the Lamont Geological Laboratory, Columbia University. He continued to collaborate with Dr. A. L. Kroeber, Research Associate in American Archaeology, in preparation of a definitive report on the large collection of Nazca pottery from southern Peru excavated by Dr. Kroeber for the Museum in 1926, a collection of exceptional importance because it is the largest series in existence of documented Nazca pots from graves.

Dr. Kenneth Starr, Curator of Asiatic Archaeology and Ethnology, continued his research into the culture history of the Chinese region during the pre-Han period. Emphasis was upon the areas outside the traditional spheres of Chinese culture that center in what now is the southern half of China.

Roland W. Force, Curator of Oceanic Archaeology and Ethnology, continued his research in Micronesian ethnology. Preparation of manuscripts for publication proceeded in the fields of social organization, leadership, political change, and native bead-money, data for which were secured during field work undertaken in 1954-56 by Curator Force for the Tri-Institutional Pacific Program (see Annual Report 1956, page 40). During August and September he visited the major ethnological museums in western Europe to examine the Pacific collections held by them. Exhibits and study-storage collections were inspected and discussed with curatorial staffs in London, Cambridge, Paris, Brussels, Amsterdam, Leiden, Cologne, Hamburg, Copenhagen, Basel, and Lisbon.

Assistant Curator Phillip H. Lewis, who was appointed in July to establish and develop a Division of Primitive Art in the Department of Anthropology, has planned a program of research and exhibition designed to study the nature of art as a phenomenon of human endeavor, thereby developing an anthropological approach to the study of primitive art that will be intelligible to nonanthropological researchers in art as well as to anthropologists. His research has two aspects. One aspect is concerned with adapting existing methods and ideas of the history and psychology of art to the problem of dealing with the art of primitive peoples. The other aspect is the study of change in primitive art in a specific culture—that of New Ireland. He has found that about one-third of the specimens collected by him in New Ireland in 1954 are the same as many of the older pieces in the Museum's collection and thus are directly comparable and that the rest can be compared stylistically with the earlier specimens.

During the year Evett D. Hester, Thomas J. Dee Fellow in Anthropology and Associate Director of the Philippine Studies Program (see Annual Report 1956, page 74), continued work on the translation and preparation for publication of the Alcina manuscript.

Accessions—Anthropology

The East Asian collections were notably enhanced through the generosity of Dr. David C. Graham, of Englewood, Colorado, who presented to the Museum a group of anthropological materials that he collected during his long residence in west China. Included is a collection of more than 300 Chinese and Tibetan rubbings and wood-block prints, outstanding among which is a series of rubbings (taken from west China tomb-reliefs dating from the Han period, 207 B.C. to A.D. 220) of particular historical, cultural, and aesthetic significance (described in Chicago Natural History Museum *Bulletin*, December 1957). The rubbings and prints are especially welcome because most of the pieces originate in west China, a region previously not well represented in the Museum's outstanding collection of more than 4,000 such rubbings (see page 30). A monetary contribution was made to the Museum by the American Friends of China in memory of Dr. Berthold Laufer, former Chief Curator of Anthropology, to be used for the acquisition of materials needed for the East Asian collections. Dr. William R. Bascom, Director of the Museum of Anthropology at the University of California, gave the Museum four objects of primitive art made by the Yoruba people of Nigeria, West Africa—two carved wooden figures from Oyo, Nigeria, and two masks. A rare tapa-cloth poncho from Polynesia was presented by Mrs. Carl von Gunten of Wheaton, Illinois, the first garment of this kind in the Museum's collections from Polynesia. Among several items given by Miss C. F. Bieber of Santa Fe, New Mexico, was a fine example of bead and shell appliqué from Borneo. The Museum received an additional 132 pieces of Philippine ceramic recoveries from Evett D. Hester (the third and final portion of a collection that he has given to the Museum), in which Chinese, Siamese, and Indochinese origins are represented.

Care of the Collections—Anthropology

Under the direction of Curator Quimby archaeological materials from eastern North America were moved to the third floor from the basement storeroom by Museum Fellow James A. Brown, who completed the checking of specimens and reorganized the collections by state and county proveniences. Sorting and checking the Oceanic collections in the Pacific Research Laboratory was completed by Evett D. Hester and Allen S. Liss, Assistant in Anthropology, and the laboratory and collections were opened for research. In addition, the per-

ishable specimens from Africa were removed from the poison rooms on the fourth floor and added to the Oceanic materials. The African collections have already been moved into their new storage space. The study and storage facilities of the Pacific Research Laboratory make it possible to deal more systematically with two of the major primitive-art areas of the world, Oceania and Africa. Work was begun on rearranging the Middle and South American collections in Room 35, which was made available by moving the Melanesian collections into the Pacific Research Laboratory.

Eve D. Hester, with the assistance of Albert Bradford and William J. Hiebert, Antioch College students, and Miss Patricia E. O'Shea, volunteer, completed cataloguing the entire Hester Collection of ceramic recoveries from the Philippines that have come to the Museum over a period of years (see page 43). A co-ordinated project was the organization of albums containing photographs of specimens in the Hester Collections that are housed in the Museum of Anthropology at the University of Michigan and at the J. B. Speed Art Museum in Louisville, Kentucky. Under the supervision of Chief Curator Martin, Miss Helen K. Kelly, Antioch College student, checked the kachinas presented to the Museum by Byron Harvey III (see Annual Report 1952, page 38) against the catalogue numbers and arranged the specimens for photographing. She later mounted the photographs and supplied the necessary captions.

Curator Starr neared the end of his work of collaboration in cataloguing the Berthold Laufer Collection of books in Oriental languages, a collection forming part of the East Asian Collection. This project has been carried out in co-operation with Dr. Hoshien Tchen and Mrs. M. Eileen Rocourt of the Library staff (see page 74).

Exhibits—Anthropology

Twelve new exhibits were prepared for Hall 8 (Ancient and Modern Indians of Mexico and Central America). Casts of Classic Maya sculpture from Yaxchilan, Guatemala, and Uxmal, Yucatan, were renovated by Ceramic Restorer Walter Boyer and installed on a specially constructed column in the center of the hall. Dioramist Alfred Lee Rowell completed for the hall a new diorama showing a Maya dedication ceremony, finished the renovation of models of an early Maya temple at Uaxactun, Guatemala, and a Mixtec palace at Mitla, Mexico, and worked on the renovation of a temple from Teotihuacan, Mexico, and on a new diorama of an Aztec market. The new exhibits emphasizing African art that have been installed



DETAIL OF
TOMB-RELIEF RUBBING

HAN PERIOD
CHINA

in the African halls (Hall D and Hall E) are mainly concerned with the presentation of the famous Benin bronzes, of which the Museum has an important collection. Also, the African exhibits have been revised. A temporary exhibit of West African masks from the collection of William R. Bascom, of Berkeley, California, has recently been installed in Hall D. The imposing Chinese jade jar presented to the Museum by R. Bensabott (see Annual Report 1955, page 41) has been placed on permanent exhibition in the Jade Room (Hall 30), where it enhances the Museum's fine collection of eighteenth-century Chinese jades. The specimens for the special exhibit on the Palau Islands of Micronesia displayed in Stanley Field Hall (see page 30) were collected by Curator Force in 1954-56 as part of his work for the Tri-Institutional Pacific Program (see page 42). Island structures, costume, men's and women's work, symbols of status, household utensils, native money, betel-nut chewing, and fishing gear were represented (the specimens were augmented by a number of enlarged photographs taken in the field). All of these exhibits, except the Maya diorama, were designed and executed by Artist Gustaf Dalstrom, assisted ably by Preparator Walter C. Reese.

Model of early Maya temple
New exhibit in Hall 8



Department of Botany

Research and Expeditions

The Curator Emeritus of Botany, Dr. B. E. Dahlgren, continued classification of the genus *Copernicia* in collaboration with Dr. Sidney F. Glassman of the University of Illinois (Navy Pier, Chicago). Accompanied by L. W. Hansen, of Racine, Wisconsin, he visited a parklike stand of species of *Copernicia* in northern Cuba early in the year, and the two men have made numerous collections of flowers, fruits, and leaves at intervals since then. *Copernicia* material assembled in the Museum had so increased during recent years that additional space had to be provided to house all larger specimens. The transfer and rearrangement of this material was entrusted to Karl Siewers, of Chicago, who formerly had put into order the large South American collections of Dr. K. S. Markley alone and with collaborators from the staff of S. C. Johnson and Son, Incorporated.

J. Francis Macbride, Curator of Peruvian Botany, continued his studies of various families in preparation of additional parts of *Flora of Peru*. He completed for publication another section, Halorrhagaceae-Cuscuta. Dr. Rogers McVaugh, curator of the phanerogamic herbarium of the University of Michigan, completed for publication as part of *Flora of Peru* his treatment of the family Myrtaceae. Descriptions of numerous new species from Peru, prepared by Dr. McVaugh, have been published by the Museum in Fieldiana.

Dr. Earl E. Sherff, Research Associate in Systematic Botany, identified large consignments of Hawaiian and East African plants, mostly Compositae, and published two papers based on these (see page 95). Early in the year Dr. Margery C. Carlson, Associate in Botany, spent three and one-half months in Central America collecting especially Loranthaecae. Her monograph on the genus *Russelia* (Scrophulariaceae) was published during the year by the Museum (see page 90).

Dr. Theodor Just, Chief Curator of Botany, continued comparative studies of modern angiosperm pollen, in which work he was assisted by Miss M. Dianne Maurer. Later in the year he extended his pollen studies to the postglacial history of the vegetation of the north-central states. In connection with his work on fossil and living gymnosperms he visited the Ginkgo Petrified Forest State Park in Washington (see page 34). Dr. Basheer Ahmed Razi, of Central College, Bangalore, India, spent seven months in the herbarium as an India Wheat Scholar under the auspices of the Conference Board

of Associated Research Councils Committee on International Exchange of Persons. He studied intensively all available collections of parasitic phanerogams from India and Pakistan as represented in American herbaria and prepared several papers for publication.

Dr. Julian A. Steyermark, Curator of the Phanerogamic Herbarium, restudied material for the next part of *Flora of Guatemala* (Standley and Steyermark) and directed work on the illustrations by Mrs. Marjorie Furr, Departmental Artist, and Samuel H. Grove, Jr., Artist-Preparator. He spent considerable time completing the identifications of the families Rubiaceae, Euphorbiaceae, and Lentibulariaceae collected by Dr. E. Yale Dawson for the Machris Brazilian expedition to the state of Goiás. With the aid of a grant from the National Science Foundation, he assembled data for a revised edition of catalogue of the flowering plants of Missouri (Palmer and Steyermark). In this connection several visits were made to the herbarium of Missouri Botanical Garden and collections were examined from several educational institutions of Missouri. Many field trips to Missouri were made by him to gather relevant distributional data. The work under this grant will be continued into 1958.

Dr. Francis Drouet, Curator of the Cryptogamic Herbarium, continued research in the classification of microscopic algae. Dr. Hanford Tiffany and Donald Richards, Research Associates, conducted research in the taxonomy of the Oedogoniaceae and bryophytes, respectively. Dr. Gregorio T. Velasquez, of the University of the Philippines, Dr. Richard D. Wood of the University of Rhode Island, and Luis R. Almodóvar, of San Germán, Puerto Rico, worked on various problems of algal classification and distribution in the cryptogamic herbarium of the Museum.

Dr. John W. Thieret, Curator of Economic Botany, continued his work on seed and fruit morphology and classification and on several botanical field trips in Illinois (see page 34) devoted considerable time to study of grasses. He completed his survey of the economic uses of cycads. For the *Index Nominum Genericorum* he submitted additional entries for genera of the Scrophulariaceae. He also started work on the treatment of this family for the *Catálogo e Estatística dos Gêneros Fanerogâmicos*, to be published by the Instituto Paranaense de Botânico, Curitiba, Brazil. Toward the end of the year he began preparation of abstracts for the journal *Economic Botany*.

Miss Edith M. Vincent, Research Librarian, edited the last part of *Flora of Peru* (Macbride) and made it ready for publication. In addition to her regular duties she aided many correspondents by finding and sending to them descriptions of and information about exotic plants and their uses.



MODELS OF *PSILOCYBE CAERULESCENS*
IN A SPECIAL EXHIBIT ON

"MEXICAN SACRED MUSHROOMS"

Accessions—Botany

The largest gift to the phanerogamic herbarium consisted of 1,605 specimens from the United States collected by Holly Reed Bennett. Major collections of plants acquired through exchange were received from the University of Michigan (757), Dr. Eberhard Kausel of Santiago, Chile (498), and the Jardim Botânico do Rio de Janeiro (251). Notable collections of plants from Pakistan and Australia were acquired by purchase. Important accessions to the cryptogamic herbarium were 208 bryophytes from the University of Tennessee and 135 fungi from the University of California, both received in continuation of exchange. The wood collection was increased by 309 specimens and the seed collection by 1,153 additions.

Care of the Collections—Botany

During the year 12,750 plants were mounted and added to the phanerogamic herbarium. Mounting and poisoning were done by Miss Olive Doig, Mrs. Jennie Pletinckx, Mrs. Ann Bigelow, and Nils Siegbahn, aided by Robert Yule and, for part of the year, by Miss Catherine Sanford, Miss Judith Stark, Miss Susan VandeCastle, and Albert Gilbert, student assistants. Mrs. Effie M. Schugman and Miss Alice Middleton mounted 9,756 specimens of cryptogams and prepared them for filing in the general collection. During the year a total of 210 wood specimens was sent out in exchange. Curator Thieret was assisted in the care of the wood, seed, and economic collections by Mrs. Ann Bigelow and, for part of the year, by Miss Judith Stark and Peter Ogle, Antioch College students. Work on restoration of the type-photograph collection was continued by Assistant J. S. Daston. Mrs. Lenore B. Warner continued to catalogue and file prints of the type-photograph collection and handle orders.

Exhibits—Botany

Work of reconditioning and installing a total of twenty-one tree exhibits in Charles F. Millspaugh Hall (Hall 26, North American Trees), which is temporarily closed for alteration, was done mainly by Curator of Exhibits Emil Sella and Preparator Walter Huebner. Curator Sella also spent some time preparing for exhibition in Hall 26 restorations of original leafy branches of sugar pine (*Pinus Lambertiana*), western red cedar (*Thuja plicata*), incense cedar (*Libocedrus decurrens*), Port Orford white cedar (*Chamaecyparis Lawsoniana*),

Alaska yellow cedar (*Chamaecyparis nootkatensis*), and redwood (*Sequoia sempervirens*). In Martin A. and Carrie Ryerson Hall (Hall 29, Plant Life) a reproduction of a fruiting branch of the medicinal cascara sagrada (*Rhamnus purshiana*, see below) by Technician Frank Boryca was added to the Buckthorn family exhibit. While occupied with the preparation of models of various spices and food plants of American origin (tropaecolum, guava, ullucus, oca, arracacha, nutmeg, chayote, ginger), Artist-Preparator Grove also reproduced two fruiting branches of allspice (*Pimenta officinalis*) that were needed to augment the exhibit of the otherwise well-represented Myrtle family. Curator Thieret and Artist-Preparator Grove, assisted by Preparator Huebner, prepared a special exhibit on New World food plants for display in Stanley Field Hall (see page 30), using various models mentioned. Chief Curator Just and Artist-Preparator Grove prepared a special exhibit on Mexican sacred mushrooms also for display in Stanley Field Hall (see page 30), for which Dr. Rolf Singer, chairman of the Department of Botany at Fundacion Miguel Lillo (Tucuman, Argentina), kindly furnished herbarium specimens, living cultures, and photographs and aided in the preparation of the three models of *Psilocybe* species made by Artist-Preparator Grove.



Department of Geology

Research and Expeditions

Dr. Sharat K. Roy, Chief Curator of Geology, aided by a grant from the National Science Foundation, left the Museum in mid September on a study trip to Western Europe, where he is currently engaged in research on meteorites. Before leaving he finished two studies on Central American volcanoes and a third on the structure of chondrules in stony meteorites (see page 91). Earlier in the year he spent three months in the field continuing his studies of the volcanoes of Mexico and Central America with particular emphasis on those of the central range of Costa Rica (see page 34).

Albert William Forslev, Associate Curator of Mineralogy and Petrology, has begun a study of the mineralogy and crystal chemical relationships of niobium-bearing minerals following the installation of the William J. and Joan A. Chalmers Mineralogical Laboratory that houses an X-ray diffraction and X-ray fluorescence unit. This new equipment was subjected to extensive initial testing and has since been used for the identification and analysis of many rock and mineral specimens.

Collecting specimens of fossil plants by George Langford, Curator of Fossil Plants, has been restricted to several one-day trips. Curator Langford has continued to work with the large collection of Pennsylvanian plant materials from the strip-mine area of Will and Grundy counties, Illinois, and has identified a large number of specimens brought to the Museum by amateur collectors. He has continued to work on his nontechnical catalogue of the unusually varied flora of the Mazon Creek nodules.

In the various divisions of paleozoology William D. Turnbull, Assistant Curator of Fossil Mammals, submitted for publication a study of a Late Cretaceous marsupial mammal from the Lance formation of Wyoming as well as notes on a mastodon of late Wisconsin age from Indiana and on the type specimen of a species of *Phlegethonia*, a Pennsylvanian limbless tetrapod. Besides making a comparative anatomical and functional investigation of the jaw mechanism of mammals, he carried on studies pertaining to the mammalian fauna of the Washakie formation of Wyoming that was deposited forty-five or fifty million years ago in mid-to-late Eocene time. The mammalian faunas of that time consist of an interesting mixture of terminal members of archaic mammal groups, quite unlike those familiar to us today, that dominated the scene during an earlier

burst of radiation in Paleocene time and of most interesting early representatives of many of the modern types. It was thus a time of rapid change and striking events in the history of the mammals when the balance of power, so to speak, gradually shifted from the old to the new. During the latter part of the summer Assistant Curator Turnbull and Chief Preparator Orville L. Gilpin returned to the Washakie Basin of Wyoming to continue their systematic search for fossils in that area (see page 34). Turnbull also made several short trips in the Chicago area to investigate Pleistocene and post-Pleistocene finds of mastodons and fossil elk, deer, and bison.

The study of the Lower Devonian fishes of Utah and Wyoming was advanced this year by the completion of a paper on the arthrodires, the third in a series by Dr. Robert H. Denison, Curator of Fossil Fishes. He is currently working on a closely related fish fauna in a collection made many years ago by Dr. J. Ernest Carman of Ohio State University and presented to the Museum last year (see Annual Report 1956, page 56). The specimens were found in a limestone quarry in northwestern Ohio in a lens of dark shale, presumably a channel deposit, that is now completely covered and inaccessible. Since it is unlikely that further material will ever be obtained in this region, Dr. Carman's collection is of particular value. The eurypterids associated with the fishes have been described by Dr. Erik N. Kjellesvig-Waering, now of the Pan-Jamaican Oil Company. Curator Denison, assisted by Preparator Bruce Erickson, and for a short period by Dr. Rainer Zangerl, Curator of Fossil Reptiles, prospected in the Devonian black shales of western New York in an attempt to find a deposit that was rich enough in fossils to encourage quarrying for them (see page 34). Although fragmentary fishes were found in many formations, the whole series of deposits proved to be too barren to justify any attempt of this sort. Operations were then transferred to central Pennsylvania, where a large series of late Silurian vertebrates was obtained.

The Mecca project, an extremely complex and detailed study of a Pennsylvanian black-shale deposit in west-central Indiana that has occupied Curator Zangerl and Dr. Eugene S. Richardson, Jr., Curator of Fossil Invertebrates, for the past several years (see Annual Report 1956, page 52), reached the stage where an analysis of the vast amount of data could begin. This involved the graphic representation of the horizontal and vertical distributions of the fossils and the fossil debris for every faunal element, the coprolites (fossil faecal material), and the driftwood. All this information was then correlated with the specific character of the various shale levels. These vary in character with the relative amount of land-derived clay



MUSEUM FIELD TRUCK IN THE ROUGHS OF
THE WASHAKIE FORMATION, WYOMING

minerals that they contain, thus reflecting periods of high water (gray shales, with a great amount of clay minerals) and periods of low water (black shales containing relatively small amounts of clay). The results obtained so far indicate periodic changes between stages of high and low water.

The study has employed the results of the examination of the speed of bacterial decomposition of fishes under a variety of natural situations in Louisiana (see Annual Report 1956, pages 52-53) similar to those that produced the Mecca shales. As a factor for determining the time involved in the deposition of the shales, it was found that each high and low water cycle lies within a period of the order of magnitude of one year, showing that four years were required for deposition of the entire shale profile of 12 inches. These results, although highly significant, are only part of the many-faceted Mecca problem. The specific character of the environment at the site of the Mecca quarry, the regional picture in the vicinity of Mecca, and the setting of the Mecca area within the overall geographic distribution of land, coal swamp, and marsh and the open inland sea of the time, as well as the detailed reconstruction of events that followed the initial inundation of the Mecca area by the sea, require the analysis of the entire fossil collection from the Mecca quarry, as well as from many localities in the area, and stratigraphic findings in Parke and Vermillion counties, Indiana (see page 34).

In the course of such field work early in the spring Curators Zangerl and Richardson discovered, in a gully some 15 miles north of the Mecca quarry site, a piece of shale that was covered entirely with the undisturbed shagreen (placoid scales) of the skin of a very large shark. This discovery led to the excavation of what may safely be called the most perfectly preserved shark ever found in the Pennsylvanian the world over and to the opening up of a second quarry far larger than the one at Mecca. The excavation is located on the land of Mr. and Mrs. P. Herbert Logan of Indianapolis, Indiana, whose kind permission to open a quarry is gratefully acknowledged. Chief Preparator Gilpin and Preparator Erickson assisted in the initial excavation of the large shark. Miss Barbara Best and Miss L. Margot Marples, Antioch College students, worked in the laboratory on preparation of the quarried material.

Curator Zangerl, with Dr. Frederick J. Medem of Colombia, Field Associate in the Department of Zoology of the Museum, described a new side-neck turtle of the subgenus *Batrachemys* (genus *Phrynops*). In connection with this study Curator Zangerl was invited by Dr. Ernest Williams, Curator of Reptiles and Amphibians at the Museum of Comparative Zoology at Harvard University, to spend a week at

his laboratory for a discussion of the systematic relationships among the South American chelyid turtles. Dr. Zangerl also collaborated with Dr. Robert Sloan, of the Department of Geology of the University of Minnesota, in the study of the second known specimen of a fossil sea-turtle, *Desmatochelys lowi* Williston (see page 58).

Curator Richardson investigated an exposure of Upper Cretaceous Bearpaw shale on the shore of the Fort Peck Reservoir in northern Montana to determine whether a paleoecological investigation of that area on the model of the Mecca project would be feasible (see page 34). Although he found abundant fossil ammonites and lobsters, he found that the depositional environment was such that a study of the proposed sort would not yield the desired information. On his way back to Chicago he collected fossil vertebrates near Fairburn, South Dakota. During the year he described a new species of a large Pennsylvanian arthropod, *Arthropleura*, basing his study on a specimen collected and presented to the Museum by Dr. Glenn Boas, of Chicago (see below).

Accessions—Geology

A notable addition to the fossil invertebrate collection during the year was a gift from Dr. Glenn Boas, of Chicago—the first piece of the dorsal covering of an *Arthropleura* to be found in North America. *Arthropleura*, the largest swamp-dwelling invertebrate, was a five-foot-long monster resembling a myriapod or a sowbug but most closely related to the trilobites. Dr. Boas collected the specimen in the strip-mine dumps near Coal City, Illinois. Specimens of partial legs were collected in 1952 by a Museum field party, and a complete leg was found in 1953 by Mrs. John McLuckie of Coal City. Thus the presence of *Arthropleura* in this deposit was known, but until the specimen collected by Dr. Boas became available it had not been possible to describe the species because the necessary characters for comparison with known European species lie in the dorsal covering.

A very fine addition to the collection of fossil fishes is the large, perfectly preserved Pennsylvanian shark excavated at the site of the Museum's Logan Quarry in Parke County, Indiana (see page 55), by Curators Richardson and Zangerl with the able assistance of Chief Preparator Gilpin and Preparator Erickson. This specimen, of which the tail had been removed by erosion long before the fossil was found, has a length of $8\frac{1}{2}$ feet from the tip of the head to a point just in front of the pelvic girdle. The entire animal was probably 13 feet long. In addition to this unique specimen, the Logan Quarry has



CHIEF PREPARATOR GILPIN WORKS ON
THE SKELETON OF BRONTOSAURUS
IN THE PALEONTOLOGICAL LABORATORY

produced many other smaller kinds of sharks, often in near-perfect condition of preservation, as well as large numbers of very fine specimens of palaeoniscoid fishes.

Many fossil vertebrates have to be described on the basis of a single, often inadequately preserved specimen. As a consequence, the systematic position of such animals is in continuous debate until additional specimens are found. Dr. Robert Sloan, of the Department of Geology of the University of Minnesota, recently recovered and assembled from various places, including taverns, pieces of a Cretaceous sediment containing the bones of an originally articulated skeleton of a sea turtle. The rock is part of the waste material stripped off the surface (of what once were granite islands in a late Cretaceous sea) by commercial granite-quarrying companies in western Minnesota and extreme eastern South Dakota. Happily, most of the skeleton was recovered and the pieces fit together perfectly. Moreover, the remains could be identified as belonging to *Desmatochelys lowi* Williston, a rare sea-turtle known only from the rather incompletely preserved type-specimen that was described by Williston more than sixty years ago and has puzzled students of fossil turtles ever since. Dr. Sloan has offered this fine specimen to the Museum in exchange for study materials.

The most noteworthy additions to the fossil-mammal collection were those made by the Museum's expedition to the Washakie Basin (see page 53). Earlier expeditions to this basin have, with but few exceptions, recovered the larger elements such as uinatheres, titanotheres, rhinos, and smaller artiodactyls and horses. Curator Turnbull and Chief Preparator Gilpin, however, were lucky enough to discover a microfauna that notably enhances the significance of this important and valuable collection.

Care of the Collections—Geology

A complete inventory of the Museum's mineral collection was made and those minerals that are not in the collection were listed. It was found that the several thousand specimens in the collection represent 43 per cent of the known kinds of minerals. The collection of fossil plants is being completely overhauled. In addition to the standard records, an illustrated descriptive catalogue is being made for this collection. In addition to routine repair of specimens accidentally damaged while being studied, a fairly large number of specimens of mammals, reptiles, and fishes was prepared and integrated into the collection in spite of the fact that much of the time of the prepara-

tion staff was devoted to work on exhibits. In addition, 35 plaster casts of specimens were made and shipped to universities, colleges, and other museums. To facilitate handling and storing of the Mecca specimens (see page 53) a special rock-saw was designed and built by the personnel of the Division of Paleontology.

Exhibits—Geology

Seventeen exhibits, all devoted to mineralogy, were completed and installed in the new Hall of Meteorites and Minerals (Hall 35). Thirteen of these exhibits consist of minerals arranged systematically according to their structural and chemical relationships. Although the number of specimens exhibited is considerably reduced in comparison with the old exhibits of minerals, the number of species has been increased, resulting in a more comprehensive representation. Four exhibits are introductory in nature and include: (1) naturally occurring elements, (2) mineral crystals, (3) physical properties of minerals, and (4) an introduction to rocks and minerals. The hall has been closed to the public for the past year, but every effort is being made to complete the mineral exhibits so that the mineralogical section of the hall may be open to the public in the spring of 1958. To accomplish this task Harry E. Changnon, Curator of Exhibits, Assistant Henry Horback, and Preparator Henry U. Taylor, in cooperation with Associate Curator Forslev, are devoting their full time to the planning, preparation, and installation of the new exhibits. Drawings of crystal structures, diagrams, and an oil painting of Death Valley are the competent work of Miss Maidi Wiebe, Departmental Artist.

The major effort in the paleontological laboratory has been directed toward the completion of the partial mounted skeleton of *Brontosaurus* in Hall 38. The bones of the neck, shoulder girdle, and forelimbs have been prepared, the re-enforcing supports are ready, and final assembly of the skeleton is under way. It is hoped that the mount will be completed early in the spring of 1958. We extend our sincere thanks to Joseph T. Ryerson and Son, Incorporated, and to W. M. Sikkema, one of the structural fabricating engineers of the company, for their assistance in the determination of types and weights of steel to be used for the mount of the brontosaur skeleton.

Five special exhibits were installed in Stanley Field Hall in connection with the annual contest and show sponsored by the Chicago Lapidary Club for amateur lapidarists of the Chicago area (see "Special Exhibits" on page 30).

Department of Zoology

Research and Expeditions

Expeditions by nonstaff members were made in Colombia and in Peru. In Colombia the Macarena Mountains, rising to an altitude of 5,500 feet, form an isolated little-known mountain-mass east of the Andes. Mammals were the main objective of the expedition in this area, but birds, reptiles, fishes, and invertebrates were also collected by Kjell von Sneider of Popayan, Colombia, who carried on the work (see page 34). An important geographic area in Peru, unrepresented in our collection by mammals, was investigated by Celestino Kalinowski of Cuzco, Peru, who worked in the Amazonian regions bordering Brazil (see page 34). Although he specialized in mammals, he collected other groups of animals.

Staff members carried on field work in Egypt, Angola, Philippines, Nepal, western Caribbean, equatorial Atlantic off northern South America, and the United States. Field Associate Harry Hoogstraal continued his work in Egypt, sending us collections that were especially important in mammals. Research Associate Rudyerd Boulton, during a visit to Africa, made a collection of birds for us in Angola. Field Associate D. S. Rabor collected birds in Samar, Philippine Islands (see page 34), and Field Associate Robert L. Fleming, stationed with his Mission in Nepal, found time to continue his bird work there.

The collection of deep-sea fishes that resulted from activities of Curator Loren P. Woods in co-operative field work with the United States Fish and Wildlife Service (see page 34) was made by trawling from the motor vessel *Oregon*. Trawling was carried on in the western part of the Caribbean Sea in August and September in depths of 10 to 500 fathoms. During November trawling was done in the Atlantic Ocean off northern South America (from Trinidad to the mouth of the Amazon) from 20 to 50 miles offshore to about the edge of the continental shelf in depths of 10 to 100 fathoms. Field work in the United States (see page 34) included insect collecting by Curator Rupert L. Wenzel in the Big Horn Mountains and eastern slope of the Rocky Mountains and by Associate Curator Henry S. Dybas (who was joined by Research Associate Alex K. Wyatt) in the Pacific Northwest.

The check-list of South American mammals in preparation by Curator Philip Hershkovitz, aided by a grant from the National Science Foundation, is making good progress, and the sections on

monkeys, bats, and hoofed animals are all in final form. Work has been interrupted periodically by the necessity of identifying African mammals for scientists in various other institutions who are studying the ectoparasites that were collected with the mammals. Temporary Assistant A. Stanley Rand helped for five months with this African work. Taxonomic research on New World mammals resulted in several short papers, including a revision of the arboreal rice rats of the genus *Oryzomys*. A revision of the galagos, or bush babies, of Africa is almost completed.

The co-operative project with Harvard University, the completion of Peters' *Check-list of Birds of the World*, has been carried a step forward by completion of the manuscript on the New World jays and crows (family Corvidae) by Curator Emmet R. Blake and of the shrike family (Laniidae) by Chief Curator Austin L. Rand, in the course of which studies several short papers were prepared. A recent comprehensive well-illustrated work on American wood-warblers (family Parulidae) contains two chapters by Curator Blake on the wood-warblers of Mexico and those of South America, areas in which he is a specialist (see page 96). Study by Curator Blake of the systematics of South American birds brought discovery of a new species of antbird and publication of its description (see page 91). Work with the collection of birds of Japan donated by John T. Moyer (see page 113) resulted in a short paper by Assistant Curator Melvin A. Traylor, Jr., who also completed a report on the great horned owls of South America and prepared sections dealing with nine species of birds for the *Check-List of North American Birds* (American Ornithologists' Union). Most of his time, however, was spent in preparing a report, with Chief Curator Rand, on the Museum's collection of Gabon birds. Associate Ellen T. Smith, with the collaboration of Dr. William J. Beecher, of Chicago, has devoted much time to preparation of a condensed guide to the birds of the Chicago area. Research on Philippine birds received impetus with the arrival from the Philippines of Field Associate Rabor (see page 60), who, with Chief Curator Rand, wrote several short taxonomic papers and one paper on the relationships of domestic and jungle fowl in the Philippines. Chief Curator Rand also prepared a short paper on left and right in animals.

Study of the huge collection of Congo frogs and toads, 74,934 specimens, a joint undertaking of Curator Robert F. Inger and the late Curator Emeritus Karl P. Schmidt, is nearing completion (see Annual Report 1955, page 58). The material obtained in Borneo in 1956 is being studied by Curator Inger and a paper on temperature responses of two lizards has been prepared. A small genus of North



Two of eight screens in new exhibit
 "The Animal Kingdom" (Hall 13)

Africa-Southwest Asia snakes has been revised by Assistant Hymen Marx, who with Dr. Charles A. Reed of the School of Pharmacy, University of Illinois, has completed a study of the collections of reptiles and amphibians made by Dr. Reed in the Near East (1954-55).

Curator Woods continued his study of sea fishes of the Gulf of Mexico and Caribbean Sea (see page 60). Study of the fishes collected by the motor vessel *Oregon* is a continuing project of Associate Marion Grey, who is also carrying on her survey of the fish fauna found below a depth of about 900 meters. She has started a revision of the fish family Gonosomatidae for the co-operative work, "Fishes of Western North Atlantic," a series of volumes (some of which have already appeared) written by various authorities and published by Sears Foundation. Anatomical studies of the serrasalmoid fishes and of sibling species of the genus *Pomacentrus*, the latter by examination of serial sections prepared by the Stritch School of Medicine, Loyola University, were carried on during the year by Dr. Edward M. Nelson, Associate in the Museum's Division of Fishes.

A revision of the beetle genus *Margarinotus* was continued by Curator Wenzel (see page 60), who also prepared a paper on techniques of photographing and studying minute insects. Papers on the periodical cicada, begun last year by Associate Curator Dybas, are nearing completion. One is being done in collaboration with D. Dwight Davis, Curator of Vertebrate Anatomy, and the other with Dr. Monte Lloyd of the University of Chicago. Research Associate Charles H. Seevers continued his study of rove beetles, and Associate Lillian A. Ross continued her work with spiders.

Study of the minute landsnails of some West Indian islands continued to occupy Curator Fritz Haas, but he also described a remarkable new fresh-water snail from Lake Titicaca in the Andes. The completion of a monograph on the New Hebridean land and fresh-water mollusks was the major accomplishment of Assistant Curator Alan Solem. In addition he submitted for publication three faunal reports on Melanesian marine shells, one on the nonmarine shells of Florida Island of the Solomon Islands, a note on a New Queensland landsnail, a commentary on the classification of some Pacific landsnails, and a short paper on some Mexican landsnails. Assistant Curator Solem has initiated another project, a check-list of New Caledonian nonmarine shells. As an aid to preparing the essential illustrations for his taxonomic work he developed a time-saving technique in co-operation with the Staff Artist and the Division of Photography (see page 88).

The anatomy and evolution of carnivorous mammals was the continuing project of Curator Davis. He also completed a report on the mammals of North Borneo, based on material collected by the Museum's Borneo Zoological Expeditions of 1950 and 1956. The study of placentas and fetal membranes of primitive mammals collected by the Borneo expedition of 1950 was continued by Associate Waldemar Meister and Curator Davis. A paper on the breeding cycle of mammals in a tropical rainforest, based on material from the same expedition, was prepared by Assistant Phyllis Wade. Research Associate R. M. Strong continued his studies of the anatomy of birds.

Accessions—Zoology

A number of outstanding additions to our collections were received during the year. In the collection of Macarena mammals, some 440 specimens representing about 70 species (see page 60) are mammals new to science and others recorded for the first time in Colombia (among rarities in this collection is a Kappler's armadillo with a well-

developed spur on each hind foot). Another important accession of mammals is two European bison (skins and skeletons), gift of Tierpark Hellabrunn, Munich, through its director, H. Heck. The largest accessions of birds came from our expeditions, 1,639 specimens from Samar in the Philippines and 241 specimens from Madre de Dios, Peru (see page 60), both lots providing new research material. The collection of African reptiles and amphibians was enriched by about 800 specimens (primarily from the National Park Institution of the Belgian Congo, from M. C. J. Ionides, and from Field Associate Hoogstraal, by exchange, purchase, and gift), which include some specimens of described species not represented in our collections. The fishes received as exchange or gift (some 2,680 specimens) from the University of California at Los Angeles are particularly valuable as reference material. As new research material the 1,042 lots of fishes (approximately 5,210 specimens) collected in cooperation with the United States Fish and Wildlife Service are particularly important (see page 60). Chicago Zoological Society continued to donate to our collections specimens of rare and difficult-to-secure animals that die in their custody.

With the purchase of the cetoniid and lucanid beetle collections of the late Eduard Knirsch of Vienna (about 34,000 specimens) our insect collections have become the most important in the western hemisphere for the study of these beetles (see page 68). Exchanges brought some 500 species of European beetles from the Frey Museum, Munich, and the Senckenberg Museum, Frankfurt. As gifts we received a collection including about 2,000 North American butterflies and moths from Dr. David Kistner, of the University of Rochester, and from expeditions more than 2,000 mammal ectoparasites.

The purchase of the James Zetek collection of nonmarine shells added to our mollusk collection 40,000 specimens representing about 4,000 species, the most important accession of shells in the past ten years. Dr. Zetek exchanged specimens with conchologists in all parts of the world and many famous malacologists were among his correspondents. Some material in the collection has assumed special importance because of world events (see page 84). A gift of 759 European clausiliid landsnails was received from the Academy of Natural Sciences of Philadelphia in return for identifications, about 1,200 marine shells of the Ryukyu Islands were purchased from Mrs. Rudolf J. Rogers, a collection of rare and beautiful seashells was given by Walter Cherry of Winnetka, Illinois, and, as in past years, a series of species unrepresented in our collection of marine shells came to us as a gift from Dr. Jeanne S. Schwengel of Scarsdale, New York (100 marine shells, worldwide).



LIFECYCLE OF JELLYFISH
SHOWN IN CARVED PLASTIC

DETAIL FROM
"THE ANIMAL KINGDOM"

Care of the Collections—Zoology

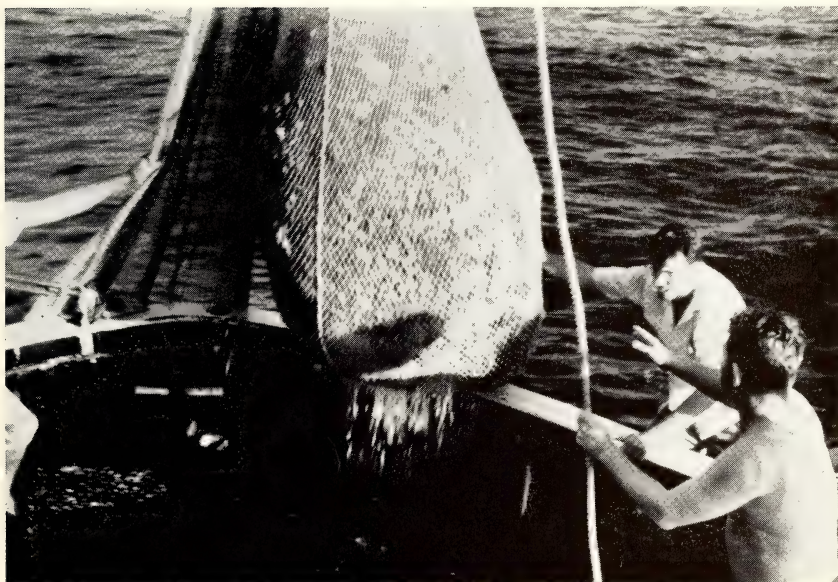
Our collections are growing at a good rate. This is a healthy condition for a research institution, but it means, of course, that the new material must be processed, housed, and cared for. Processing includes identification, often cataloguing, and sometimes special treatment before the new specimens can be incorporated into the specimen files of our permanent collections. All this is part of the routine that, varying in detail from division to division, is the heavy responsibility of every curator. Fortunately the divisions of birds, mammals, insects, fishes, and reptiles and amphibians have had secretarial help and also, to aid in curatorial work, several temporary assistants, a number of volunteer assistants, and four Antioch College students (David Graybeal, Ben Massie, John Nash, and Miss Anita Pope).

In addition to routine care of the mammal collections, a several-years' backlog of African-mammal skulls was cleaned for study. Tanner Dominick Villa and Assistant Taxidermist Mario Villa prepared large skins of both African and South American mammals for the study collection. Assistant Taxidermist Peter Anderson remade some salted birdskins into Museum specimens. Osteologist Sophie Andris carried on work for both the Division of Mammals (cleaning 1,360 skulls) and the Division of Anatomy (preparing 92 skeletons).

The last of the 20,547 bird specimens of the Koelz Collection acquired in 1956 was catalogued and so made available for incorporation into the collection, and the bird collections from gulls to ostriches were rearranged. Shifting of the fish collection to make it more usable was started by Assistant Pearl Sonoda, on whom much of the routine work of the Division of Fishes rests. The large numbers of specimens that the Division of Insects must handle (there are about three-quarters of a million species of living insects) put a proportionately large burden of routine curatorial work on that staff. Curator Emeritus William J. Gerhard completed reorganizing and arranging the Museum's collections of ants, bees, and wasps. Research Associate Wyatt worked with North American butterflies and moths, incorporating with them the extensive Wyatt Collection. Assistant August Ziemer arranged North American moths and transferred nearly half of the Knirsch Collection of palearctic beetles into unit trays. The Division of Lower Invertebrates, like the Division of Insects, deals with a great many species. There are perhaps 100,000 in the phylum (compared with 3,500 mammals, for instance), and the number of specimens is correspondingly great and routine curatorial work heavy. Curator Haas and Assistant Curator Solem have done most of this themselves, processing 57,000 shells.



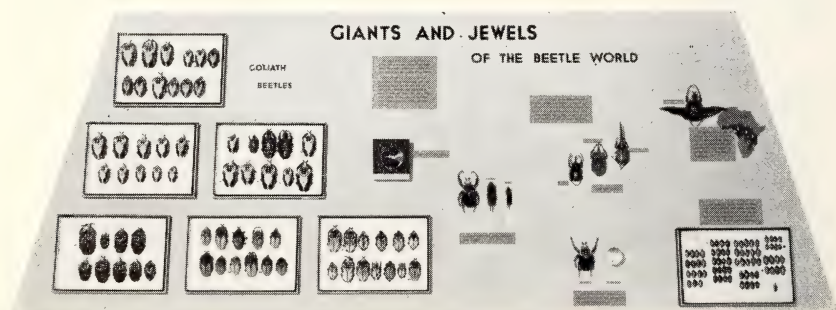
SELECTING SPECIMENS FROM A SINGLE HAUL
MV "OREGON" CRUISE OF U. S. FISH AND WILDLIFE SERVICE



Exhibits—Zoology

Two new exhibits were installed. "The Animal Kingdom" is the inclusive title for one of them, which is a series of eight cases, each showing examples of one of the main types of animals from protozoans and sponges to echinoderms (starfish, etc.) and vertebrates. Appropriate paintings, which show where the animals live, carry the mind beyond the animals and the confines of the cases. The exhibit, strategically located between the Museum's north entrance and the zoology halls, serves as an introduction to the zoology exhibits. The explanatory labels in each case refer to the location of related exhibits in the Museum. Although the work of this exhibit was supervised by Chief Curator Rand and its preparation carried out largely by Artist Joseph B. Krstolich, the plan was co-operative. Most of the zoology curatorial staff made recommendations, and Curator Haas and Assistant Curator Solem gave special attention to the invertebrates. Taxidermists Carl W. Cotton and Ronald J. Lambert prepared certain specimens, and Staff Artist E. John Pfiffner and Staff Illustrator Marion Pahl were responsible for the design.

A quite different kind of exhibit is the "Colorful Birds" placed in the center of Boardman Conover Hall (Hall 21, Birds in Systematic Arrangement). It is a sculpture of wire decked with brightly colored birds—vivid, modern, and eye-catching—and its message is that birds can be gay, beautiful creatures of light and air. The exhibit was designed and executed by Staff Artist Pfiffner and Taxidermist Cotton. The exhibits "Turtles of Chicagoland" and "Nonvenomous Snakes of the United States" were revised by Taxidermist Lambert and installed in Albert W. Harris Hall (Hall 18, Reptiles, Amphibians, and Insects). A selection of striking cetoniid and stag beetles from the Knirsch Collection (see page 64) was shown in Stanley Field Hall for a month (see page 30) and then transferred to Hall 18.



LIBRARY OF THE MUSEUM

PUBLIC RELATIONS

CO-OPERATION

SCIENTIFIC SOCIETIES

PHOTOGRAPHY AND
ILLUSTRATION

MOTION PICTURES

PUBLICATIONS AND
PRINTING

MAINTENANCE, CONSTRUCTION
AND ENGINEERING

LIBRARY OF THE MUSEUM

The adoption of sound principles of choosing what to add to its collections is fundamental in a science library, and the growing mass of publications increases the difficulty of determining what should be acquired. Recommendations for purchase are chiefly the responsibility of the scientists of the Museum staff, and special attention is given to collections known to be weak. Some retrospective buying has been done, primarily for the Division of Oceanic Archaeology and Ethnology and the Division of Mineralogy and Petrology. Gaps are gradually being filled. However, there are definite limits to the amount of material that can be acquired, housed, and managed efficiently. The Library faces a difficult situation in providing the essential publications and keeping them available in perpetuity within the limits of available funds and available space.

Total acquisitions in the Library during the year amounted to 12,748 items, exclusive of book-order receipts (see a selected list of books and serials on page 115). Volumes accessioned numbered 1,293, and 405 volumes were withdrawn. Many of the volumes withdrawn have been sold and the proceeds added to the Library purchase fund. Others have been exchanged for wanted items or held for future sale.

Many important gifts enriched the Library's resources. Grateful acknowledgment is made to the donors (see page 115) both for their interest in the Library and for their contributions to the collection. The Library was the fortunate but sad recipient of the scientific library of the late Dr. Karl P. Schmidt, Curator Emeritus of Zoology. This notable and unique library consists primarily of a comprehensive collection of literature on herpetology, although books and papers on other divisions of zoology and on natural science in general are included. The material constitutes a valuable reference collection and the Museum is indeed grateful for it. As for many years the John Crerar Library again provided important journals, serials, and individual publications on indefinite loan for use in the Museum. The assistance given to us by the John Crerar Library and its interest in our work are deeply appreciated.

The Library has benefited more than ever during the past year from its exchange arrangements with scientific institutions throughout the world. Many important journals and monographs that the Museum could not otherwise afford were received, many new exchanges were established, and some earlier exchanges were revised so that institutions no longer actively engaged in publishing or having little or no material to offer in exchange have placed subscriptions for the Museum's papers.

Acquisitions aside from books and periodicals include a microfilm reader and a microcard reader. A collection of records, consisting of folksongs, Indian dances, tribal music, bird calls, sounds of the sea, etc., has been acquired. Additions to this collection will be made.

While its primary purpose is service to the Museum staff, the Library has become over the years an important center of research for other scholars and students. The Museum Library seeks to assist readers in securing information and in using the resources of the Library in study and research, and the reference librarian gives prompt, efficient service both to the scientific staff and to visitors. Our visitors are usually scholars pursuing advanced studies, colleagues in the fields of natural science, or random seekers after facts. They are sometimes hesitant about using the card catalogue and may have difficulty in expressing their needs for reference material. In such cases the reference librarian can be especially helpful. Our reference work includes answering inquiries by telephone and through the mail and, because of the specific nature of the Library's collection, there are many unique requests. For specialized data the reference librarian has found it expedient to supplement the published information by consulting the Museum's scientific staff.

The reference librarian is also responsible for maintenance of the Kardex Record on which are recorded daily the hundreds of serials, journals, monographs, and series received in the Museum. The reference division sent out many form-letters for material that failed to come in and compiled the quarterly lists of books overdue in the General Library. Visitors used 1,636 volumes in the reading room, and 6,645 items were entered on the Kardex. The Library was fortunate to have the services of Phillip Mershon, Antioch College student, who, in addition to other Library duties, assisted in the reading room.

The generally recognized difficulty in obtaining cataloguers is a serious impediment in the progress of our cataloguing and classification work. Our cataloguing division is currently understaffed because of the absence in military service of William P. Fawcett, former Antioch College student. It is necessary for the Library not only to produce required information but also to produce it in short time. The information sought is often quite specific, so that cataloguing must be detailed in extreme. As a result the catalogues are large in relation to the collections, and the work necessary to produce and maintain them is great and expensive.

Accomplishments for the year are as follows: 802 new volumes (represented by 576 main entries in the card catalogue) were catalogued and classified; 1,220 volumes (represented by 188 main entries

“COLORFUL BIRDS”

A NEW EXHIBIT
IN HALL 21



in the card catalogue) were reclassified; 1,205 monographs and articles were analyzed (they are represented in the card catalogue by an author card and one or more subject cards); 82 volumes transferred from the John Crerar Library on permanent loan were catalogued under the Library of Congress system and added to this Museum's Library records; and 319 temporary main-entry cards were prepared for the remainder of the volumes transferred from the John Crerar Library so that the volumes may be represented in the Museum's catalogue until they can be completely catalogued and classified. Miss Patricia Williamson, summer assistant, began work on an authorities file for authors. In this file are now 1,434 cards, and the Library of Congress section of the Library's author file has been amended through the letter "B." A total of 18,650 catalogue cards was prepared and filed in the main card catalogue and in the catalogues of the departments. A total of 131 items was translated.

In the Asiatic section of the Library Dr. Hoshien Tchen continued his work of cataloguing the East Asian Collection of books in Oriental languages, cataloguing new acquisitions and bringing to near completion his part in the processing of the large collection of Chinese and Japanese titles acquired by Dr. Berthold Laufer, former Chief Curator of Anthropology. Including new acquisitions and the Laufer books, 431 titles consisting of more than 2,300 volumes were catalogued during the year by Dr. Tchen. In addition, minor repairs were made on those books that through age and mishandling were in need of special care. Since 1954 Dr. Tchen has catalogued about 1,500 titles, consisting of more than 11,500 volumes.

It is a particular source of satisfaction to note that after three years of concentrated work Dr. Tchen has all but finished the monumental task of making a preliminary catalogue of the Chinese and Japanese portions of the Laufer Collection. There remains only a month or two of organizational and repair work. The magnitude of cataloguing this valuable collection of books may be realized when it is pointed out that the Laufer books in Chinese and Japanese languages number 1,119 titles in 7,809 volumes and that the collection in content spans the entirety of East Asiatic history and culture—art and archaeology, biography, dictionaries, encyclopaedias and other reference works, geography, history, literature, philosophy and religion, science and industry. Among these titles are a great number of fine woodblock editions dating from the Ming (A.D. 1368–1644) and Ch'ing (A.D. 1644–1911) periods.

Although the preliminary cataloguing is near completion, much remains to be done before the processing of the East Asian Collection is finally done. This applies particularly to the Laufer books. The

proper classification of the titles and the preparation of catalogue cards by means of which the books are made available for use must be completed. After the necessary repairs have been made on the books, proper binders must be provided for the Chinese-style volumes, many of which are in numbered sets. Such binders are standard in the handling of Oriental books because they tend to prevent losses and also protect the delicate paper against dirt and abuse. Temporarily the books have been bound in heavy wrapping paper and tied with string. Tight cabinets will be provided for the unique, rare, or extremely fine works so that they will be protected.

The interlibrary-loan system is an agreement between libraries whereby each library is responsible for the successful completion of the transaction and the return in good condition of all material borrowed and lent. It is a courtesy extended by libraries to each other. Although some libraries charge the individual for the costs incurred in an interlibrary-loan transaction, the Museum assumes the expense for the maintenance of this service. In order that costs may be held to a minimum the Library consistently checks the information supplied in requests for loans because shipments of the wrong material would be expensive and serve no purpose. Much time is spent by the Library in keeping accurate interlibrary-loan records. Both outgoing and incoming shipments are evaluated for insurance against the cost of replacement if lost or damaged in transit. Interlibrary-loan activities during the year included many requests for photoduplications and microfilms. A total of 262 volumes was lent.

The proper care of the book collection continues endlessly. Periodic surveys are made of the shelves to determine the condition of the volumes and to withdraw those in need of repair or rebinding. Inasmuch as many publishers are issuing publications in paper bindings it is necessary to add the paperbound acquisitions to the regular bindery program. During the year 1,208 volumes were prepared for the commercial bindery, 816 volumes were repaired, and 3,400 volumes were labeled and bookplated. This division of the Library also labeled, captioned, lettered, stamped, boxed, collated, accessioned, and applied ownership marks to the volumes catalogued during the year. Reshelving and arranging books in the order of their classification and packing and wrapping material shipped on interlibrary loan are further responsibilities of this division.

Overcrowding of the anthropology and botany libraries and lack of space to house the additions are again serious problems. Study was given to the Library's problem of space, and plans for installation of stacks in the room opposite the main anthropology library have been under consideration.

PUBLIC RELATIONS

In today's complex world, with demands coming from all directions for the public's attention, an institution, no matter how great, must constantly remind people of its existence and of its program, if it is to function to its maximum. To achieve this objective the Division of Public Relations unceasingly harasses the Director and the members of the scientific staff for news. The Museum is filled with material for stories of unusual interest, so that it is possible to keep a steady flow of releases and photographs moving into the editorial offices of newspapers, magazines, and radio and television stations. The cumulative result is that the public is aware that the Museum exists for the benefit of the public, that it is one of the really worthwhile places to visit, that it is contributing to the advance of science, and that it is one of Chicago's important educational facilities.

As in preceding years, the Museum enjoyed gratifying co-operation from the press and from radio-television. Grateful acknowledgment is made not only to the great metropolitan dailies of Chicago and the large network-connected radio and television stations but also to hundreds of community newspapers and to some nineteen independent radio stations important in local areas.

Acknowledgment for courtesies is also made to the giant wire-services and the radio-television networks that give coast-to-coast and even world-wide distribution to the more important news originating in the Museum. In addition, the Museum has been the recipient of courtesies from many other types of organizations. For example, the Chicago Transit Authority, Illinois Central System, and Chicago and North Western Railway have continued their custom of many years of advertising, without cost, the Museum's Edward E. Ayer lectures for adults and the Raymond Foundation programs for children.

A publicity innovation of the year, which will be continued, is photographing groups of out-of-town visitors and sending the pictures with captions as special releases to home-town newspapers. The editors have welcomed these releases in the way that counts—publication, with a mention of the Museum. The Museum gained a great amount of additional notice locally and nationally as one of the hosts to several hundred scholars attending the important fifty-sixth annual meeting of the American Anthropological Association (see page 83). The Museum was publicity headquarters for the association, and a member of the Museum's publicity staff assisted the association's publicity committee in processing and distributing abstracts of papers presented at the meeting.

CO-OPERATION WITH OTHER INSTITUTIONS

It has always been the desire and the practice of this Museum to lend full co-operation to other institutions and individuals engaged in the studies within our field. As the dissemination of knowledge is one of our prime objectives, we are eager also to assist in the training of those who will further this objective in the years to come. From this point of view, the following summary of co-operative activities indicates substantial progress toward the accomplishment of our collective mission.

Dr. Donald Collier, Curator of South American Archaeology and Ethnology, and Roland W. Force, Curator of Oceanic Archaeology and Ethnology, gave lectures on South America and Oceania, respectively, in a series of lectures called "Places and Peoples" sponsored by the University of Chicago and held at the Museum. On the day following each lecture, members of the audience were taken by the lecturers on a tour of pertinent exhibits. George I. Quimby, Curator of North American Archaeology and Ethnology, conducted a seminar at the University of Chicago on rates of culture change in eastern United States prehistory. Phillip H. Lewis, Assistant Curator of Primitive Art, lectured at the Art Institute of Chicago in connection with an exhibition of African art.

Dr. Theodor Just, Chief Curator of Botany, gave a seminar-lecture on paleobotany for the Department of Biological Science of Loyola University. Dr. Julian A. Steyermark, Curator of the Phanerogamic Herbarium, lectured on his expeditions to Venezuela before graduate students in botany of Butler University. As chairman of the Volo and Wauconda Bogs Committee of the Illinois Chapter of Nature Conservancy he gave several lectures before various organizations concerning the need and importance of preserving these natural areas of northern Illinois.

The graduate course in vertebrate paleontology of the University of Chicago was conducted as in past years by Dr. Everett C. Olson, Professor of Vertebrate Paleontology at the university and Research Associate on the Museum's staff. Dr. Robert H. Denison, Curator of Fossil Fishes, and Dr. Rainer Zangerl, Curator of Fossil Reptiles, each contributed to Dr. Olson's class an afternoon session of lecture and discussion. Curator Zangerl and Dr. Eugene S. Richardson, Jr., Curator of Fossil Invertebrates, were invited by Dr. Ralph Johnson of the Department of Geology of the University of Chicago to present to his class in sedimentology a detailed description of the paleoecological methods used in the Mecca project (see page 53) and the results obtained so far. The Department of Geology co-operated with the

Chicago Police Department on several occasions during the year when various materials were analyzed for the Police Department's Crime Detection Laboratory by Albert William Forslev, Associate Curator of Mineralogy and Petrology, using the facilities of the Chalmers Mineralogical Laboratory.

Dr. Austin L. Rand, Chief Curator of Zoology, spoke before a seminar in biogeography at Northwestern University. Loren P. Woods, Curator of Fishes, addressed an assembly and a seminar at Earlham College and a graduate group at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi. Rupert L. Wenzel, Curator of Insects, addressed the Annual Pest Control Conference held by the Ninth Naval District at Great Lakes, Illinois. Henry S. Dybas, Associate Curator of Insects, spoke before a class in ecology at the University of Chicago and a field biology class from Northwestern University. He was re-elected president of the South Cook County Mosquito Abatement District. D. Dwight Davis, Curator of Vertebrate Anatomy, lectured on the morphogenesis of the face and dentition in mammals before an orthodontists' seminar sponsored by Dr. Sidney Asher of Chicago.

Supervised classes of art students continued to use the Museum exhibits as a part of their classroom work in sketching, painting, and modeling, and results of this were placed on special exhibition in Stanley Field Hall in the summer. Many universities and colleges in Chicago and other cities continued their use of the Museum. Among them were the University of Chicago, Chicago Teachers College, DePaul University, Eastern Illinois State College, George Williams College, University of Illinois, Illinois Institute of Technology, Loyola University, McMaster University (Canada), University of Minnesota, Morton Junior College, North Park College, Northwestern University, University of Notre Dame, Roosevelt University, Valparaiso University, and Wheaton College. The Chicago Area Science Fair (sponsored by the Chicago Teachers Science Association), a show in which students of grades six through twelve from all schools within a 35-mile radius of Chicago are eligible, was held at the Museum on Saturday, May 18. Under the co-operative educational plan adopted in 1946 by this Museum and Antioch College, Yellow Springs, Ohio, thirteen young men and women were employed in 1957 by the Museum.

Among visitors in the Department of Anthropology during the year were Dr. David Aberle, Dr. Theodore Bank III, Dr. Albert Spaulding, and Dr. James B. Griffin, University of Michigan; Jack Anglin, Dr. Clifford Evans, and Dr. Betty J. Meggers, United States National Museum; Miss Dorothy Bennett, Dr. Samuel A. Barrett,



ASSOCIATE CURATOR FORSLEV WORKING IN THE
CHALMERS MINERALOGICAL LABORATORY

Lawrence E. Dawson, and Michael J. Harner, University of California; Junius Bird and Dr. Gordon Ekholm, American Museum of Natural History; Professor Chiang Yee, Dr. Richard Woodbury, and Mrs. Natalie Woodbury, Columbia University; Dr. Azumi Seiichi, Tokyo; Dr. Norman Britan, Wright Junior College; Dr. Lidio Capriani, Florence, Italy; Ch'ên Shou-min, Director, Taiwan Handicraft Promotion Center; Dr. Stephen Williams, John B. Glass, Dr. S. K. Lothrop, and Miss Joy Mahler, Peabody Museum; Chu Chên-fa, Consul of the Republic of China, Chicago; Dr. Chou Wên-chung, Rye, New York; Miss Madeleine David, Musée Cernuschi, Paris; Dr. Jeremiah F. Epstein, Hunter College; Dr. Luiz de Castro Faria, Museu Nacional, Rio de Janeiro; Dr. Fu Lo-shu, New York; Miss Nyunt Han, Rangoon; Mrs. Eta Harich-Schneider, Vienna and Tokyo; Dr. Edward A. Kracke and Dr. Cyril S. Smith, University of Chicago; Professor Ho Kuang-chung, Dean of University of Malaya, Singapore; Dr. Maurice E. Lavanoux, Editor of *Liturgical Arts*, New York; Mrs. Carmen Cook de Leonard, Centro de Estudios Antropológicos Mexicanos, Mexico; Ling Ta-tsêng, Consul-General of the Republic of China, Chicago; Dr. Richard S. MacNeish, National Museum of Canada; Stewart Peckham, Museum of New Mexico; Dr. John Pick, Chicago; Dr. Saul Rosenberg and Dr. William C. Sturtevant, Smithsonian Institution; Dr. Robert E. Ritzen-thaler, Milwaukee Public Museum; Miss Kathleen Blackshear and Allan Sawyer, Art Institute of Chicago; Dr. Tsuneo Aoba, Tokyo Medical and Dental University; Dr. Roy Sieber, State University of Iowa; Dr. Bernard J. Siegel, Stanford University; Dr. Paul Singer, Summit, New Jersey; Miss Shinoda Toko, Tokyo; Dr. Ruth M. Underhill, Denver; Dr. Sunder J. Vazirani, Bombay; Professor Wang Chi-yüan, New York; Dr. Alfred F. Whiting, Dartmouth College; Raymond Wielgus, Chicago; and Dr. Kurt Willvonseder, Salzburg.

Visiting botanists included Luis R. Almodóvar, Puerto Rico; Dr. Fred A. Barkley, Morristown, New Jersey; Dr. M. R. Birdsey, University of Miami; Father Luis Camargo, Colombia; Dr. Thomas J. Cobbe, Columbus; Dr. Hiden T. Cox, American Institute of Biological Sciences; Anwar Dilmy, Indonesia; Dr. John D. Dwyer, Missouri Botanical Garden; Dr. O. J. Eigsti, Chicago Teachers College; Dr. John Hall, University of Minnesota; Dr. John A. Jump, University of Notre Dame; Dr. Lawrence Kaplan, Roosevelt University; Robert Koeppen and Robert Rean, University of Wisconsin; Dr. Fritz Mat-tick, Botanisches Museum, Berlin; Dr. John McCormick, American Museum of Natural History; Dr. P. N. Mehra, Khalsa College, Panjab University; James Rees, Anderson College; Dr. H. Radclyffe Roberts and Dr. Ruth Patrick, Academy of Natural Sciences of

Philadelphia; M. Sayeeduddin, Osmania University, India; Father Siegrist, St. Joseph's College; Dr. Rolf Singer, Fundacion Miguel Lillo, Argentina; Dr. A. C. Smith, National Science Foundation; Dr. Wilson N. Stewart and Floyd A. Swink, University of Illinois; Nduwez Uzoma, Nigeria; Dr. Gregorio T. Velasquez, University of the Philippines; Dr. Paul Voth, Dr. Barbara Palser, and Dr. Robert L. Shaffer, University of Chicago; Archie Wilson, Summit, New Jersey; and Dr. Richard D. Wood, University of Rhode Island.

Visiting geologists included Dr. John A. Wilson, University of Texas; Dr. Natascha Heintz, Paleontologisk Museum, Sweden; Professor Eugenia Montanaro-Gallitelli, University of Modena, Italy; Dr. Mario Braga de Abreu, Brazil; Dr. Charles A. Reed and Dr. Robert Bader, University of Illinois; Dr. Robert Sloan, University of Minnesota; Leslie Marcus, University of California; and Research Associate Bryan Patterson, Department of Geology of the Museum.

Visiting zoologists included Dr. Theodore Haltenorth, Zoologische Sammlung des Bayerischen Staates, Germany; Dr. Karl Koopman, Queens College; Miss Barbara Lawrence, Museum of Comparative Zoology; Dr. Joseph C. Moore and Dr. Hobard Van Dusen, American Museum of Natural History; Donald Baepler, University of Oklahoma; C. Blair Coursen, General Biological Supply House; Dr. and Mrs. William J. Graber and Dr. Richard B. Selander, Illinois State Natural History Survey; Gerd Heinrich, Peabody Museum of Natural History; C. J. Lindsay, Wellington Museum, New Zealand; Wendell M. Levi, Charleston; William Phelps, Venezuela; Ram S. Singh, British Guiana Museum and Zoo; Dr. George Wallace, Michigan State University; Dr. Alexander Wetmore and Robert Kanazaw, United States National Museum; Dr. Telford H. Work, Rockefeller Institution; Dr. Frank M. Carpenter, Harvard University; Dr. Joseph Camin and Dr. Paul Ehrlich, Chicago Academy of Sciences; Dr. Sidney Camras, Chicago; Earl Cross, Purdue University; Dr. John Downey, University of Southern Illinois; Dr. and Mrs. Robert E. Gregg, University of Colorado; Glenn Haas, Great Lakes; Dr. Henry Howden, Canada Department of Agriculture; Dr. Monte Lloyd, University of Chicago; Miss Kathy O'Neill and J. H. Fales, United States Department of Agriculture; Dr. R. Matsuka, University of Kansas; Dr. Rodger D. Mitchell and Daniel M. Cohen, University of Florida; Dr. James A. G. Rehn, Academy of Natural Sciences of Philadelphia; Dr. Charles L. Remington, Osborne Biological Laboratories; Dr. William Snow, Tennessee Valley Authority; Dr. S. Utida, Kyoto University; Alfred E. Ebeling and Dr. Carl L. Hubbs, Scripps Institution of Oceanography; Dr. Allan D. Linder, University of Wichita; James Tyler, Stanford University; Teruya

Uyeno and Dr. Henry Townes, Museum of Zoology, University of Michigan; Marlin Perkins, Lincoln Park Zoo; Dr. Sherman Blakney, National Museum of Canada; Dr. John Pringle, Natal Museum; Miss Alice Grandison, British Museum (Natural History); Dr. Richard Highton, University of Maryland; Dr. J. A. Roze, Universidad Central de Venezuela; Brother Hermano Gines, Instituto de la Salle, Venezuela; Robert Bean and Dr. George Rabb, Chicago Zoological Society; Dr. Dorothy Franzen, Illinois Wesleyan University; Dr. Sidney Asher, Chicago; Dr. Norman Jones, Dr. Charles A. Reed, Dr. Hobart M. Smith, and Dr. E. Lloyd DuBrul, University of Illinois; Dr. George E. Erikson, Harvard Medical School; Dr. H. M. Ford and Dr. C. O. Bechtol, Yale University School of Medicine; Dr. John Hendrickson, University of Malaya; Dr. V. M. Klemola, Finland; Dr. G. C. Rebell, University of Oklahoma; Donald Sayner, University of Arizona; Dr. R. M. Stecher, Cleveland; Dr. Paul Williams, Dallas; and Dr. P. E. P. Deraniyagala, Museum of Colombo.

On a Museum Journey by herself



ACTIVITIES OF STAFF MEMBERS IN SCIENTIFIC SOCIETIES

The Museum, the University of Chicago, and Northwestern University were cosponsors of the fifty-sixth annual meeting of the American Anthropological Association, which was held in Chicago in December (see page 76). The Museum was host to the members of the association on Saturday, December 28, and a number of official activities were held at the Museum. The staff of the Department of Anthropology attended the meetings and several curators read papers. Roland W. Force, Curator of Oceanic Archaeology and Ethnology, was chairman of the local arrangements committee.

Dr. Donald Collier, Curator of South American Archaeology and Ethnology, George I. Quimby, Curator of North American Archaeology and Ethnology, Dr. John B. Rinaldo, Assistant Curator of Archaeology, Miss Elaine Bluhm, Assistant in Archaeology, Phillip H. Lewis, Assistant Curator of Primitive Art, Evett D. Hester, Thomas J. Dee Fellow in Anthropology, and Curator Force attended the joint annual meetings in Madison, Wisconsin, of the Society for American Archaeology and the Central States Branch of the American Anthropological Association. Curator Collier and Curator Force presented papers, and Curator Quimby, who was elected president of the Society for American Archaeology for the 1957-58 term, acted as chairman of one of the sessions.

Dr. Paul S. Martin, Chief Curator of Anthropology, Assistant Curator Rinaldo, and Assistant Elaine Bluhm attended a conference at the University of Southern Illinois on Mexican-Southwestern relationships. As the official delegate of the American Anthropological Association, Assistant Curator Lewis attended, by invitation, a symposium on the artist in tribal society held at the Royal Anthropological Institute in London (he received a grant for travel from the American Council of Learned Societies). Evett D. Hester was the Museum's representative at the Ninth Pacific Science Congress of the Pacific Science Association, which was held in Bangkok, Thailand. Curator Collier and Curator Force attended a conference on preparation of an encyclopaedia of anthropology held at Edwardsville, Michigan, under the auspices of the Wenner-Gren Foundation for Anthropological Research. Curator Collier was elected to a second term as chairman of the Institute of Andean Research, and Curator Force was invited to become a member of a twelve-man standing committee on Museums and Pacific Research of the Pacific Science Association.

Dr. Theodor Just, Chief Curator of Botany, attended in New Orleans the Conference of Biological Editors sponsored by the National Science Foundation and the American Institute of Biological Sciences and was appointed chairman of the committee on editorial policy. He read a paper (synopsis of ginkgos) at the annual meetings of the American Institute of Biological Sciences at Stanford University and participated in a symposium on continental glaciation at the meetings in Indianapolis of the American Association for the Advancement of Science (see page 95).

Dr. Rainer Zangerl, Curator of Fossil Reptiles, Dr. Eugene S. Richardson, Jr., Curator of Fossil Invertebrates, and William D. Turnbull, Assistant Curator of Fossil Mammals, attended the meetings of the Society of Vertebrate Paleontology, which first met in Philadelphia and then with the Geological Society of America in Atlantic City, at which meetings they reported on their current research. Curator Richardson attended the meetings in Indianapolis of the American Association for the Advancement of Science, where he presented a paper pertaining to the Mecca project (see page 53) before the symposium on Mississippian and Pennsylvania problems of the Midwest. Albert William Forslev, Associate Curator of Mineralogy and Petrology, attended in Denver the Sixth Annual Conference on Applications of X-ray Analysis, sponsored by the Denver Research Institute and the University of Denver, and the meetings in Atlantic City of the Geological Society of America, where he presented a paper.

Dr. Austin L. Rand, Chief Curator of Zoology, and Melvin A. Traylor, Jr., Assistant Curator of Birds, attended the meetings at Cape May of the American Ornithologists' Union, where Chief Curator Rand took part in a symposium on migration in the southern hemisphere. Research Associate Rudyerd Boulton represented the Museum at the Pan-African Ornithological Congress held in Northern Rhodesia and at the conference of the International Committee for Bird Protection held in Southern Rhodesia. Philip Hershkovitz,

In the collection of 40,000 nonmarine shells purchased recently from James Zetek of Panama are several hundred specimens that had been obtained many years ago by him from the Hungarian National Museum in Budapest. With destruction in 1956 of that museum's entire mollusk collection, the shells from this collection that are now in Chicago Natural History Museum assume historical importance. Opposite are several photographed against the account in "Science" (volume 125, page 342).



Fire at Hungarian Museum

According to a report from Budapest, the Hungarian National Museum, which was largely burned during the recent war, has a complete collection of scientific specimens. The following groups of specimens were destroyed: Insects, including Orthoptera, neuropterans, Diptera, Hymenoptera, and Coleoptera; birds, and large mammals. The famous Horvath collection of insects, which was largely destroyed, and the collection of birds were largely destroyed.

Curator of Mammals, and Osteologist Sophie Andris attended the meetings in Lawrence, Kansas, of the American Society of Mammalogists. Dr. Robert F. Inger, Curator of Amphibians and Reptiles, Loren P. Woods, Curator of Fishes, D. Dwight Davis, Curator of Vertebrate Anatomy, and the late Curator Emeritus Karl P. Schmidt attended the meetings in New Orleans of the American Society of Ichthyologists and Herpetologists. Curator Inger spoke in St. Louis at the midwest conference on biosystematics.

Rupert L. Wenzel, Curator of Insects, and Henry S. Dybas, Associate Curator, presented papers at the annual meetings in Memphis of the Entomological Society of America, where Curator Wenzel was appointed to a committee to consider establishing a national institute of entomology. Dr. Fritz Haas, Curator of Lower Invertebrates, attended the meetings of the American Malacological Union at New Haven. Dr. Alan Solem, Assistant Curator of Lower Invertebrates, was elected to the Natural Science Foundation, an organization devoted to the study of Indo-Pacific marine mollusks. Mrs. Marion Grey, Associate in the Division of Fishes, was elected Fellow of the Academy of Zoology in Agra, India.

Miss Miriam Wood, Chief of James Nelson and Anna Louise Raymond Foundation, attended the annual meeting in Grand Rapids of the Midwest Conference of Museums of the American Association of Museums. Local meetings of the American Library Association and of the Special Libraries Association were attended by Mrs. Meta P. Howell, Librarian, and Mrs. M. Eileen Rocourt, Associate Librarian. Mrs. Rocourt was appointed chairman of the Museums Division of the Special Libraries Association's annual convention to be held in Chicago in June, 1958, and attended the preliminary planning boards held in November and December.

Dr. John W. Thieret, Curator of Economic Botany, was appointed to the staff of advisory editors of *Economic Botany*. Members of the Museum's scientific staff who continued to serve in various capacities on editorial boards of scientific journals include Chief Curator Just, *Lloydia* (editor) and *American Journal of Botany*; Assistant Curator Turnbull, *Säugetierkundliche Mitteilungen* (Stuttgart, Germany) and *Society of Vertebrate Paleontology News Bulletin*; and Curator Woods, *The American Midland Naturalist*. Curator Davis was elected to the editorial board of *Copeia*, and Dr. Edward M. Nelson, Associate in the Division of Fishes, is an assistant editor.

A number of members of the Museum's scientific staff contribute reviews and articles to various learned journals on subjects within the Museum's fields of interest and research. A bibliography of some of this material that appeared in 1957 is on page 95.

PHOTOGRAPHY AND ILLUSTRATION

The work of the Division of Photography and the Division of Illustration has enabled the Museum to achieve new standards of excellence in its illustrative material, both for its publications and for its exhibits. John Bayalis and Homer V. Holdren form a team capable of handling any photographic assignment, and they have enough imagination to foresee the possible use of their illustrative material. Miss Mary Creed, by her careful attention to the records and routines so essential to the operation of this division with its wide variety of materials and objects, enables the photography team to devote all its time to its own work. More than 124,500 negatives are now in the files of the Division of Photography.

In the field of illustration, E. John Pfiffner, ably aided by Miss Marion Pahl and assisted often by illustrators or artists assigned to the scientific departments, has achieved a degree of co-operation that has increased production, reduced friction, and approached a "current" basis in the handling of requisitions for art work. Time spent in consultation to establish complete understanding is repaid many times over in the production of art work that portrays clearly the subject-matter with due regard for those features that call for special emphasis (see pages 62 and 73). In the field of fantasy, Miss Pahl has achieved a unique masterpiece with her murals in the Museum's lunchroom for children (see page 94).

MOTION PICTURES

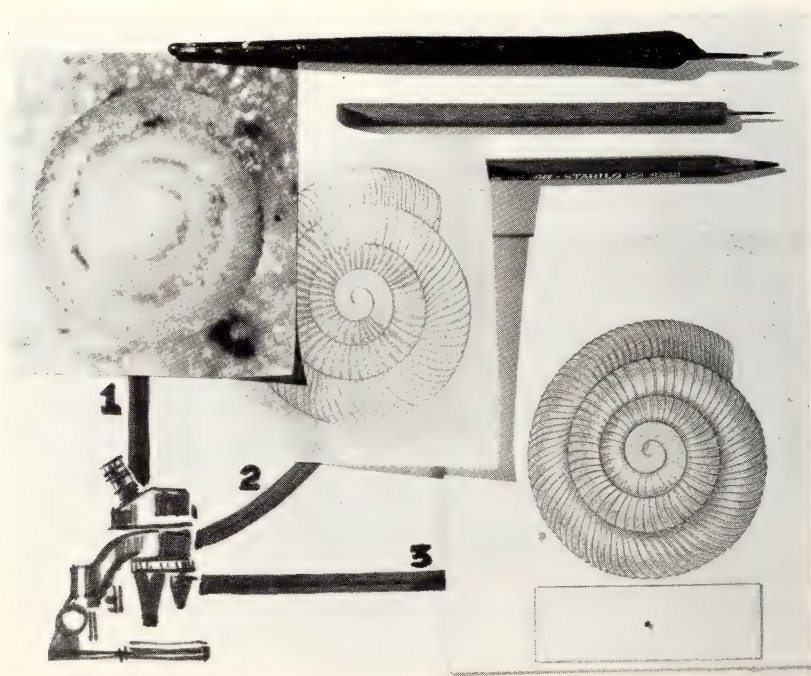
Throughout the year work was carried on in general maintenance of films, both completed film productions and catalogued subject-footage. This work involved the physical inspection, cleaning, and repair of all film in the Museum's Film Library, which now numbers ninety-nine complete productions and thousands of feet of additional film on various subjects. Films that had been damaged from use were replaced. Assistance was given and titles were made for a new geology film on volcanoes, "Field Studies in Central American Volcanology." Films were lent to various television stations for use in programs during the year.

For many years film laboratories have been searching for a chemical that would prolong the life of films, as a great amount of money is invested in each foot of film. Early this year, after years of testing, a new chemical marketed under the tradename "Vap-o-rate" was created, and we undertook the treatment of all our films by this proc-

ess in order to reduce wear and tear on them. The experience and ability of John Moyer, who has charge of our Division of Motion Pictures, guarantee the good condition of this collection.

During the latter part of the year the Museum film "Through These Doors," produced in 1950 (see page 22), was made available to schools and various other organizations as an educational and a public-relations service. The film was presented at one of the meetings of the Conference of Woman's Clubs and a printed announcement of the availability of the film was sent to schools throughout the Chicago area. Shortly thereafter many requests for loan were received, and as many requests as possible were honored. The film is offered without charge to such groups, and so it is expected that many additional opportunities to present the story of the Museum to interested groups in many places will occur in the next year.

A new short-cut in making drawings of minute shells: the pinhead-size shell on the microscope slide is photographed through microscope and picture (1) is traced (2), giving shape and proportions that are easily transferred to the final drawing (3).
see pages 63 and 87



PUBLICATIONS AND PRINTING

The continued increase in purchase of Museum publications, both scientific and popular, by students and for resale in other bookstores was reflected in the highest gross income from sales of Museum publications in our history. A total of 70,078 copies was distributed, of which 17,682 were shipped without charge under existing exchange agreements with institutions and individuals and 52,396 were sold. Receipts from sales by mail amounted to \$2,047.79 in October, an all-time record for mail orders in any one month. This record figure is mainly the result of the use of our Museum publications as textbooks in colleges and universities of the United States and Canada.

Statistics are at best inadequate in telling the story of the Museum's publication program. The Museum press is operated primarily as an outlet to members of the staff for publishing reports on their research. Inevitably other demands must also be met, such as the preparation of Museum Stories, which are written by staff members of Raymond Foundation (see page 26) in order to present scientifically correct information in attractive form for children of the grade schools. The editing of manuscripts, checking of references, arrangement of illustrative material, and all the many other details that must be correctly handled in order that good publications may result could not be accomplished without the selfless work of our Associate Editors. Miss Lillian A. Ross, assisted by Miss Martha H. Mullen, handles the scientific publications, and Mrs. Helen A. MacMinn handles the miscellaneous publications.

At the Eighth Annual Exhibition of Chicago and Midwestern Book Making sponsored by the Chicago Book Clinic in May, a Certificate of Award was presented to the Museum in recognition of its entry *The King's Day* (see Annual Report 1956, pages 46 and 82). This publication in popular style, written by Mrs. Webster Plass of New York and London, was recognized for its high standards of design, printing, binding, publishing intent, and reader appeal. All phases of the work were accomplished by the Museum press except the photoengraving, which was done by Jahn and Ollier Engraving Company. A similar award was given to Mrs. MacMinn, who designed the book.

During the year twenty-four publications in the scientific series, three in the popular series (two reprints), and one annual report were printed by the Museum press. The number of copies totaled 56,177 from 1,845 pages of type composition. Twelve numbers of *Chicago Natural History Museum Bulletin* were printed, averaging 7,150 copies an issue. Miscellaneous work totaled 706,863 impressions.

MUSEUM PUBLICATIONS IN 1957

ADMINISTRATIVE PUBLICATION

Report of the Director to the Board of Trustees for the Year 1956, 155 pages, 25 illustrations

DEPARTMENT OF ANTHROPOLOGY

BLUHM, ELAINE A.

The Sawmill Site, A Reserve Phase Village, Pine Lawn Valley, Western New Mexico, Fieldiana: Anthropology, volume 47, number 1, 88 pages, 29 illustrations, 3 maps

BRAIDWOOD, ROBERT J.

Prehistoric Men, Popular Series, Anthropology, number 37, 122 pages, 31 illustrations (reprint of second edition)

Prehistoric Men, Popular Series, Anthropology, number 37, 187 pages, 44 illustrations (third edition)

HOLMBERG, ALLAN R.

Lizard Hunts on the North Coast of Peru, Fieldiana: Anthropology, volume 36, number 9, 18 pages, 15 illustrations

MARTIN, PAUL S., JOHN B. RINALDO, AND ELOISE R. BARTER

Late Mogollon Communities, Four Sites of the Tularosa Phase, Western New Mexico, Fieldiana: Anthropology, volume 49, number 1, 144 pages, 57 illustrations

MARTIN, RICHARD J.

Mummies, Popular Series, Anthropology, number 36, 42 pages, 20 illustrations (reprint)

QUIMBY, GEORGE I.

The Bayou Goula Site, Iberville Parish, Louisiana, Fieldiana: Anthropology, volume 47, number 2, 84 pages, 16 illustrations, 2 maps

QUIMBY, GEORGE I., and ALBERT C. SPAULDING

The Old Copper Culture and the Keweenaw Waterway, Fieldiana: Anthropology, volume 36, number 8, 13 pages, 7 illustrations

SPOEHR, ALEXANDER

Mariannas Prehistory, Archaeological Survey and Excavations on Saipan, Tinian and Rota, Fieldiana: Anthropology, volume 48, 187 pages, 89 illustrations

DEPARTMENT OF BOTANY

CARLSON, MARGERY C.

Monograph of the Genus Russelia (Scrophulariaceae), Fieldiana: Botany, volume 29, number 4, 70 pages, 6 illustrations, 3 maps

STEYERMARK, JULIAN A., AND COLLABORATORS

Contributions to the Flora of Venezuela, Fieldiana: Botany, volume 28, number 4, 514 pages, 6 illustrations

MUSEUM PUBLICATIONS IN 1957

DEPARTMENT OF GEOLOGY

ROY, SHARAT KUMAR

A Restudy of the 1917 Eruption of Volcán Boquerón, El Salvador, Central America, Fieldiana: Geology, volume 10, number 30, 20 pages, 21 illustrations

The Present Status of the Volcanoes of Central America, Fieldiana: Geology, volume 10, number 28, 5 pages, 1 map

The Problems of the Origin and Structure of Chondrules in Stony Meteorites, Fieldiana: Geology, volume 10, number 31, 14 pages, 12 illustrations

ZANGERL, RAINER, AND RALPH G. JOHNSON

The Nature of Shield Abnormalities in the Turtle Shell, Fieldiana: Geology, volume 10, number 29, 22 pages, 5 illustrations

DEPARTMENT OF ZOOLOGY

BLAKE, EMMET R.

A New Species of Ant-Thrush from Peru, Fieldiana: Zoology, volume 39, number 7, 3 pages

INGER, ROBERT F.

Report on a Collection of Marine Fishes from North Borneo, Fieldiana: Zoology, volume 36, number 3, 67 pages, 1 illustration, 1 map

RAND, A. STANLEY

Notes on Amphibians and Reptiles from El Salvador, Fieldiana: Zoology, volume 34, number 42, 30 pages

RAND, AUSTIN L.

The Subspecies of the Bush Shrike Laniarius fulleborni (Including L. poensis), Fieldiana: Zoology, volume 39, number 6, 4 pages

Two New Species of Birds from Angola, Fieldiana: Zoology, volume 39, number 5, 5 pages

RAND, AUSTIN L., AND D. S. RABOR

Philippine Zoological Expedition 1946-1947, New Birds from the Philippines, Fieldiana: Zoology, volume 42, number 2, 6 pages

RAND, AUSTIN L., AND ROBERT L. FLEMING

Birds from Nepal, Fieldiana: Zoology, volume 41, number 1, 216 pages, 4 illustrations, 2 maps

SCHMIDT, KARL P.

Notes on Lizards of the Genus Dicrodon, Fieldiana: Zoology, volume 39, number 9, 7 pages, 2 illustrations

The Venomous Coral Snakes of Trinidad, Fieldiana: Zoology, volume 39, number 8, 9 pages, 3 illustrations

SCHMIDT, KARL P., AND A. STANLEY RAND

Geographic Variation in the Central American Colubrine Snake, Ninia Sebae, Fieldiana: Zoology, volume 39, number 10, 12 pages

SEEVERS, CHARLES H.

A Monograph on the Termitophilous Staphylinidae (Coleoptera), Fieldiana: Zoology, volume 40, 334 pages, 42 illustrations

SOLEM, ALAN

Philippine Zoological Expedition 1946-1947, Philippine Snails of the Family Endodontidae, Fieldiana: Zoology, volume 42, number 1, 12 pages, 4 illustrations

MUSEUM PUBLICATIONS IN 1957

CHICAGO NATURAL HISTORY MUSEUM BULLETIN

Chicago Natural History Museum Bulletin, volume 28 (1957), 12 numbers, 96 pages, illustrated

THE FOLLOWING ARTICLES AND REVIEWS BY STAFF MEMBERS OF CHICAGO NATURAL HISTORY MUSEUM ARE PRINTED IN VOLUME 28 OF THE BULLETIN:

BLAKE, EMMET R.

Review of *Natural History of Birds, A Guide to Ornithology* (by Leonard W. Wing), no. 4, p. 2

COLLIER, DONALD

"Diorama Shows Colorful Maya Dedication Ceremony," no. 12, pp. 3, 8, 1 illustration

FORCE, ROLAND W.

"Palau Exhibit Traces Change in a Pacific Culture," no. 3, pp. 3-4, 7, 1 illustration, 1 map

GREGG, CLIFFORD C.

"Award for Bookmaking Won by Museum," no. 6, p. 4

"Members' Night Omitted," no. 9, p. 2

HAAS, FRITZ

"'Extinct' Snail Found; Had Been Hiding for 300 Million Years," no. 10, p. 7

"Tribute to E. E. Hand, Shell Collector," no. 1, pp. 3, 7, 1 illustration

HERSHKOVITZ, PHILIP

Review of *Mammals of the World, Their Life and Habits* (by François Bourlière), no. 2, p. 7

INGER, ROBERT F.

"Karl Patterson Schmidt, 1890-1957," no. 11, p. 2

Review of *Boy's Book of Frogs, Toads, and Salamanders* (by Percy A. Morris), no. 6, p. 2

MARTIN, PAUL S.

"Glottochronology: Dating by Words," no. 5, pp. 2, 7

"History of an Ancient People Unfolds in Arizona," no. 11, pp. 3-4, 1 illustration

"Southwest Expedition Breaks New Trails," no. 6, pp. 3-4

MARTIN, RICHARD A.

"Two Museums Reunite a Shared Egyptian," no. 10, p. 8, 2 illustrations

QUIMBY, GEORGE I.

"Dating the Past—Upper Great Lakes Area," no. 6, pp. 6-7, 1 table

"Prehistoric Hunters—Upper Great Lakes," no. 5, pp. 6-7, 2 illustrations

"The Archaeology of Environment, Great Lakes Area," no. 7, pp. 4-5, 7, 6 illustrations

RAND, A. STANLEY

"Snake's Trail Leads to Prize in Art Show," no. 10, p. 6

MUSEUM PUBLICATIONS IN 1957
THE MUSEUM BULLETIN (CONTINUED)

RAND, AUSTIN L.

- "Like Some People, Talking Birds Sound Off without Thinking," no. 8, p. 6, 1 cartoon
- "New Exhibit Provides a Key to Animal Kingdom," no. 9, pp. 3, 7, 2 illustrations
- "New Philippine Birds," no. 7, pp. 2, 6
- "Please Send Information about Everything," no. 1, p. 8
- "Sanderlings Devour Fisherman's Bait," no. 3, p. 8, 1 cartoon
- "Some Birds Are Good Parents; Some Aren't!" no. 6, p. 7, 1 cartoon
- "The Story behind a Major Museum Project," no. 9, p. 6
- "Woodpeckers as a Source of Insurance Claims," no. 1, p. 3, 1 cartoon

RICHARDSON, EUGENE S., JR.

- "Rare 250-million-year-old Sharks Found in Indiana," no. 8, pp. 3, 7, 2 illustrations
- "Tools of Surveyors Aid Shale Study," no. 6, pp. 3, 4, 2 illustrations

ROCKWELL, JANE

- "Museum Asked to Settle Wagers and Solve Puzzles," no. 2, pp. 4-5, 3 cartoons
- "Some Gourmet Receipts from Explorers' Cook Books," no. 7, pp. 3, 6, 2 cartoons

ROSS, LILLIAN A.

- "Easily Tamed—Harmless': Want a Pet? Try a Tarantula!" no. 4, pp. 6-7, 2 illustrations, 1 cartoon

ROY, SHARAT KUMAR

- "Climbing to the Flaming Crater of Izalco," no. 1, pp. 6-7, 1 illustration
- "Geologist Reports on Volcanoes in Central America," no. 10, p. 3, 2 illustrations

SCHMIDT, KARL P.

- Review of *Snakes and Snake Hunting* (by Carl Kauffeld), no. 5, p. 8
- Review of *The Edge of April, A Biography of John Burroughs* (by Hildegard Hoyt Swift), no. 11, p. 8
- Review of *The Living Museum* (by Alice Millard Stowell), no. 3, p. 2

SINGER, ROLF

- "Sacred Mushrooms Inspire Medical Research," no. 12, p. 7, 1 illustration

SOLEM, ALAN

- "Museum Receives Valuable Shell Collection," no. 10, p. 5, 1 illustration
- "Unusual Pacific Shells Added to Museum Collections," no. 4, pp. 3, 7, 1 illustration

STARR, KENNETH

- "Gift of Chinese Rubbings Goes on Special Exhibition," no. 12, pp. 4-5

THIERET, JOHN W.

- "Nutmeg and Mace: Spices from Same Source," no. 2, pp. 5-6, 1 illustration
- "Parasitic Witchweeds Threaten Southern Crops," no. 4, pp. 4-5, 8, 2 illustrations

WENZEL, RUPERT L.

- "Curator Comments on Beetles, Collections, Museums," no. 11, pp. 6-7

MUSEUM PUBLICATIONS IN 1957
THE MUSEUM BULLETIN (CONTINUED)

WOOD, MIRIAM

"Museum's Spring Comes Earlier Every Year," no. 8, p. 2, 1 illustration

WOODS, LOREN P.

"Observations on Lake Michigan Fishes at Chicago," no. 6, p. 5
2 illustrations

"Seasonal Changes and Activities of Lake Fishes," no. 5, pp. 3-4,
4 illustrations

"Some Little-Known Fishes of Lake Michigan," no. 8, pp. 4-5

JAMES NELSON AND ANNA LOUISE RAYMOND FOUNDATION
FOR PUBLIC SCHOOL AND CHILDREN'S LECTURES

FLEMING, EDITH

"From Cave Man to City Dweller," series of 9 Museum Stories, numbers 314-322 (each story 4 pages), illustrated

PABST, MARIE B.

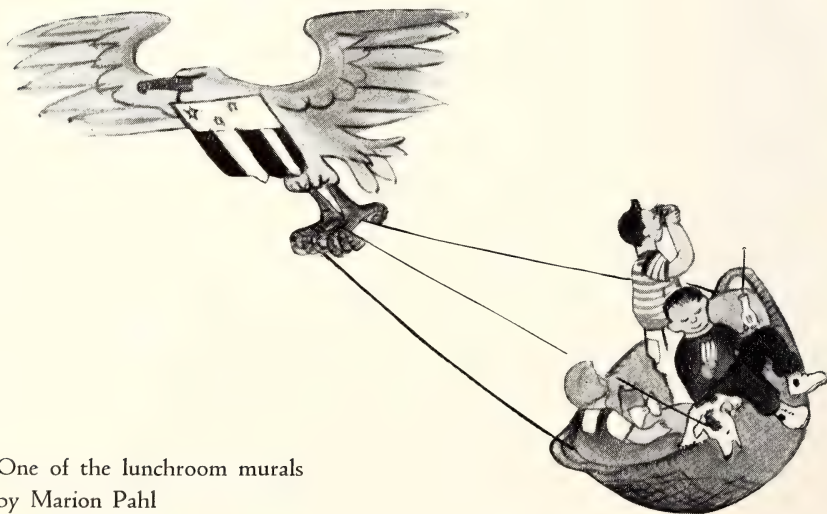
Common Birds of Chicago, Museum Stories (9 stories paperbound), 21 pages,
9 illustrations

SMITH, HARRIET

"Indian Neighbors of Our United States Settlers," series of 9 Museum Stories,
numbers 323-331 (each story 4 pages), illustrated

WOOD, MIRIAM, ROBERTA CRAMER, AND EMMA NEVE

Indians of Early Chicago, Museum Stories (8 stories paperbound), 20 pages,
9 illustrations



One of the lunchroom murals
by Marion Pahl

OTHER PUBLICATIONS OF STAFF MEMBERS IN 1957

DEPARTMENT OF ANTHROPOLOGY

COLLIER, DONALD

Review of *Ceramics for the Archaeologist* (by Anna O. Shephard), in *American Antiquity*, vol. 23, no. 1, pp. 87-88

LEWIS, PHILLIP H.

"Primitive Art in a Natural History Museum," *Townsfolk*, vol. 27, no. 8, pp. 11, 25

MARTIN, PAUL S.

"Mogollon," in *Encyclopaedia Britannica* (1957), vol. 15, p. 645

"Recent Archaeological Work in Arizona of the Chicago Natural History Museum," *The Kiva*, vol. 23, no. 2, pp. 19-20

Review of *A History of the Ancient Southwest* (by Harold S. Gladwin), in *American Anthropologist*, vol. 59, no. 5, pp. 926-927

QUIMBY, GEORGE I.

"An Old Copper Site at Menominee, Michigan," *The Wisconsin Archaeologist*, vol. 38, no. 2, pp. 37-41

"An Old Copper Site at Port Washington," *The Wisconsin Archaeologist*, vol. 38, no. 1, pp. 1-5

RINALDO, JOHN B.

Review of *Archaeological Investigations on the Uncompahgre Plateau in West Central Colorado* (by H. M. Wormington and Robert H. Lister), in *American Antiquity*, vol. 22, no. 3, pp. 315-316

DEPARTMENT OF BOTANY

DROUET, FRANCIS

"Alga- and Lichen-stabilized Surface Crusts as Soil Nitrogen Sources," *American Journal of Botany*, vol. 44, no. 6, pp. 489-498 [with Lora M. Shields and Charles Mitchell]

"Revision of the Coccoid Myxophyceae: Additions and Corrections," *Transactions of the American Microscopical Society*, vol. 76, no. 2, pp. 219-222 [with William A. Daily]

"The Machris Brazilian Expedition. Botany: Cyanophyta," *Los Angeles County Museum Contributions in Science*, no. 5, pp. 1-2

"Type Specimens of Algae in the Herbarium of Anton Hansgiring," *Annalen des Naturhistorischen Museums in Wien*, vol. 61, pp. 41-59

JUST, THEODOR

"Catalogue of the Pharmacopoeias, Dispensatories, Formularies and Allied Publications (1493-1957) in Lloyd Library," *Lloydia*, vol. 20, no. 1, pp. 1-42 [with John Uri Lloyd and Corinne Miller Simons]

"Postglacial Vegetation of the North-Central United States," in *Program and Abstracts, American Association for the Advancement of Science, Section E (Geology and Geography)* [Indianapolis, 1957], page 13

SHERFF, EARL E. (COAUTHOR)

"*Bidens grantii* (Oliv.) Sherff var. *stapfioides* Sherff, var. nov.," in "Notes from the East African Herbarium: IV," *Kew Bulletin*, no. 3, p. 445

"*Coreopsis* (sect. *Eucoreopsis* Nutt.) *odora* Sherff sp. nov.," in "Notes from the East African Herbarium: IV," *Kew Bulletin*, no. 3, pp. 445-446

"Further Notes on Compositae (*Bidens* L., *Coreopsis* L. and *Dubautia* Gaud.) in the Herbarium of the British Museum of Natural History," *Annals and Magazine of Natural History*, vol. 10, no. 109, pp. 42-46

OTHER PUBLICATIONS OF STAFF MEMBERS IN 1957

STEYERMARK, JULIAN A.

"Botany of the Chimantá Massif—I. Gran Sabana, Venezuela," *Memoirs, New York Botanical Garden*, vol. 9, no. 3, pp. 393-441 [with Bassett Maguire and John J. Wurdack]

"White-flowered Forms of *Liatris* and *Vernonia*," *Rhodora*, vol. 59, no. 697, pp. 23-24

THIERET, JOHN W.

"New Plant Records: Illinois and Indiana," *Rhodora*, vol. 59, no. 703, p. 181 [with Robert A. Evers]

"Notes on Illinois Grasses," *Rhodora*, vol. 59, no. 701, pp. 123-124 [with Robert A. Evers]

"Nutmeg and Mace," *Frontiers*, vol. 21, no. 5, pp. 142-144

"Plants New to Illinois and Indiana and the Chicago Region," *Rhodora*, vol. 59, no. 698, pp. 31-33 [with Julian A. Steyermark and Floyd A. Swink]

"Plants New to Illinois and to the Chicago Region," *Rhodora*, vol. 59, no. 707, p. 289

DEPARTMENT OF GEOLOGY

RICHARDSON, EUGENE S., JR.

"Fossils," in *American Peoples Encyclopedia* [1957 yearbook], pp. 536-537

RICHARDSON, EUGENE S., JR., AND RAINER ZANGERL

"Postulates Employed in a Pennsylvania Paleocological Study," *Bulletin of the Geological Society of America*, vol. 68, no. 12, p. 1899

ROY, SHARAT KUMAR

"Der heutige Zustand der Vulkane in Zentralamerika," *Neues Jahrbuch für Mineralogie, Geologie und Paläontologie*, vol. 4, pp. 176-179

"Neue Gesichtspunkte zum 1917—Ausbruch des Vulkans Boqueron, El Salvador Mittelamerika," *Neues Jahrbuch für Mineralogie, Geologie, und Paläontologie*, vol. 6, pp. 250-261

ZANGERL, RAINER

"A Parietal Foramen in the Skull of a Recent Turtle," *Proceedings of the Zoological Society, Calcutta*, Mookerjee Memorial Volume, pp. 269-273

"Reptiles," annotated bibliography in "Treatise on Marine Paleocology," *Geological Society of America*, Memoir 67, pp. 1013-1018

DEPARTMENT OF ZOOLOGY

BLAKE, EMMET R.

Warblers of North America (New York, The Devin-Adair Company), 434 pages, 33 illustrations in color [with Ludlow Griscom and others]

HAAS, FRITZ

"Natural History of the Pearls," *Comunicaciones, Instituto Tropical de Investigaciones de la Universidad de El Salvador*, vol. 4, pp. 113-126, 11 illustrations

"Proposed Use of the Plenary Powers to Secure that the Generic Name 'Anodonta' Lamarch, 1799 (Class Pelecypoda) Shall Be the Oldest Available Name for the Genus Concerned (Proposed Validation of a Ruling Given in 'Opinion' 94)," *The Bulletin of Zoological Nomenclature*, vol. 13, pp. 245-247

"Zur Tiergeographie von Amazonien und Guayana-Schild," *Mitteilungen der Naturforschenden Gesellschaft Bern*, (2) 14, pp. 59-64, 1 illustration



CURATOR DAVIS STUDYING
STOMACH CONTENTS OF BORNEO MAMMALS

VERTEBRATE ANATOMY LABORATORY

OTHER PUBLICATIONS OF STAFF MEMBERS IN 1957

HERSHKOVITZ, PHILIP

"On the Possible Occurrence of the Spectacled Bear *Tremarctos ornatus* (F. Cuvier, 1825) in Panama," *Säugetierkundliche Mitteilungen*, vol. 5, no. 3, pp. 122-123

"The Systematic Position of the Marmoset *Simia leonina* Humboldt (Primates)," *Proceedings of the Biological Society of Washington*, vol. 70, pp. 17-20

"The Type Locality of *Bison bison* Linnaeus," *Proceedings of the Biological Society of Washington*, vol. 70, pp. 31-32

INGER, ROBERT F.

"Ecological Aspects of the Origins of the Tetrapods," *Evolution*, vol. 11, pp. 373-376

"Morphological and Seasonal Development of Sex Characters in Two Sympatric African Toads," *Journal of Morphology*, vol. 99, pp. 549-574 [with Bernard Greenberg]

MARX, HYMEN

"Keys to the Lizards and Snakes of Egypt," *Navy Medical Research Unit Number 3, Cairo, Egypt, Research Project Report NM 005 050.39.45*, 8 pages

RAND, AUSTIN L.

"A Scientist Admonishes Teachers and Pupils," *Turtlex News*, vol. 35, no. 1, pp. 6-8 (reprinted from *Chicago Natural History Bulletin*, vol. 27 [1956])

"Changes in English Sparrow Population Densities," *The Wilson Bulletin*, vol. 69, no. 2, pp. 186-187

"Sanderlings Eat Fishermen's Bait Minnows," *The Wilson Bulletin*, vol. 69, no. 2, pp. 186-187

Review of *Natural History of Birds, A Guide to Ornithology* (by Leonard W. Wing), in *Natural History*, vol. 66, no. 3, pp. 166-167

SCHMIDT, KARL P.

"Anent the 'Dangerous' Bushmaster," *Copeia*, 1957, p. 233

"Emmett Reid Dunn, 1894-1956," *Copeia*, 1957, p. 75-77

SCHMIDT, KARL P., AND ROBERT F. INGER

Living Reptiles of the World (Garden City, New York, Hanover House), 287 pages, 266 illustrations (145 in color)

SCHMIDT, KARL P., AND HYMEN MARX

"Results of the Namru-3 Southeastern Egypt Expedition, 1954. 2. Reptiles and Amphibians," *Navy Medical Research Unit Number 3, Cairo, Egypt, Research Project Report NM 005 050.39.40*, 27 pages

SOLE, ALAN

"Non-marine Mollusca from Salobra, Matto Grosso, Brazil, and a Collection of South Brazilian Artemon," *Notulae Naturae*, no. 287, 14 pages, 1 illustration

"Notes on Some Mexican Land Snails," *Notulae Naturae*, no. 298, 13 pages, 1 illustration

"The Helicoid Cyclophorid Mollusks of Mexico," *Proceedings of the Academy of Natural Sciences of Philadelphia*, vol. 108, pp. 41-59, 2 illustrations

WOODS, LOREN P.

"*Beryx splendens* Lowe in the Gulf of Mexico," *Copeia*, 1957, no. 4, pp. 298-299

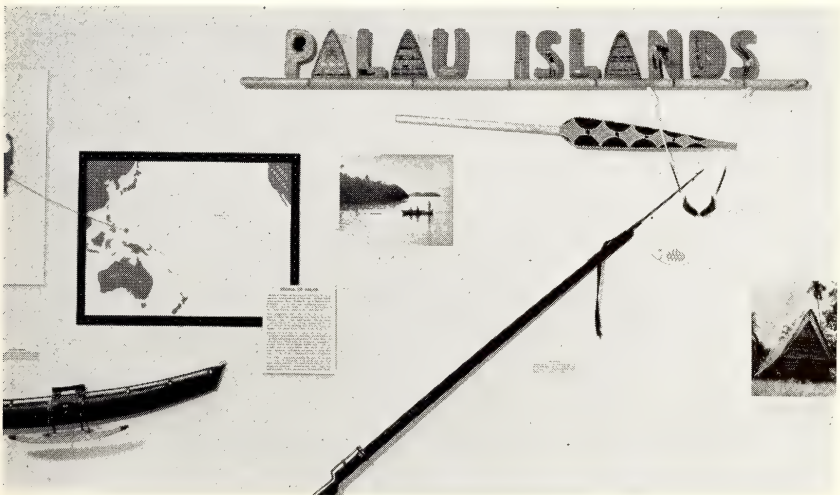
WOODS, LOREN P., AND ROBERT F. INGER

"The Cave, Spring and Swamp Fishes of the Family Amblyopsidae of Central and Eastern United States," *American Midland Naturalist*, vol. 58, no. 1, pp. 232-256, 11 illustrations, 5 tables

MAINTENANCE, CONSTRUCTION, AND ENGINEERING

The maintenance of the building, as always, required considerable attention, time, effort, and funds. During the year, window sash was renewed or repaired in eight third-floor rooms, the boiler room, and the lecture hall. Tuck pointing on the stairs approaching the building was checked and repaired where necessary, and the terra cotta on the Museum stack was washed and pointed. The flag poles were washed and new halyards installed. Washing and painting operations included the public toilets and lobby, stair rails to the north and south of the building, and several exhibition halls. The cleaning of glass is a perpetual operation. Permanent closing of the windows in Hall 26 (Botany) was completed in preparation for reinstallation of the hall, and work of the same type was initiated in Hall 36 (Geology). Counters were removed and steel shelving installed in the lunchroom and kitchen area. The usual maintenance of plumbing was continued through the year, and new urinals were installed in the public toilets. Work continued on the installation of new panel-boards, and 235 lighting units and 94 electrical outlets were installed. In addition, certain damaged electrical wiring was replaced and in some instances the wiring was rerouted. Assistance as required was given to all the scientific departments in preparation

Part of special exhibit in Stanley Field Hall
showing materials from the Palau Islands
(see pages 30 and 42)



for the installation of exhibits. Such work included the construction, painting, and installation of cases and lighting boxes and moving and installation of large or cumbersome objects. Work was done in Halls D, E, F, G, 8, and 9 of the Department of Anthropology and in Halls 25 and 26 of the Department of Botany. Extensive remodeling of cases for Hall 35 and rearrangement of exhibits in Hall 38 to prepare for the improvement of the *Brontosaurus* exhibit were accomplished for the Department of Geology (see page 59). The principal work for the Department of Zoology was preparation of the cases for "The Animal Kingdom" exhibit in Hall 13 and the case for the beautiful "Colorful Birds" in the center of Hall 21 (see pages 62 and 73). In addition, the Division of Maintenance built 200 trays for bird storage, cut to size more than 1,000 pieces of cork for insect storage-trays, installed steel track and hoist over the main storage tank in the Division of Anatomy, and made miscellaneous changes in office accommodations for scientific personnel.

The usual summer cleaning and rehabilitation of the boilers and brickwork were accomplished at the time of the summer shutdown. Heater tank and chemical lines were washed out, chemical pumps overhauled, and motors cleaned and repaired where necessary. The top 50-foot section of the steel smokestack was replaced, the new section was lined, and the stack was painted. New radiators were installed in Hall 26 (Botany) in preparation for new-type transparencies. All fire-fighting equipment was checked, repaired, and refilled or replaced as conditions warranted. Under existing contracts, a total of 27,157,000 pounds of steam was furnished to the Park District and Shedd Aquarium in addition to the heating requirements of the Museum, which amounted to 35,079,300 pounds.

MISCELLANEOUS

In the pages that follow are submitted the Museum's financial statements, attendance statistics, door receipts, accessions, list of Members, articles of incorporation, and amended by-laws.

CLIFFORD C. GREGG, *Director*
Chicago Natural History Museum

ATTENDANCE STATISTICS

FINANCIAL STATEMENTS

LIST OF ACCESSIONS

LIST OF MEMBERS

ARTICLES OF INCORPORATION

AMENDED BY LAWS

COMPARATIVE ATTENDANCE STATISTICS AND DOOR RECEIPTS

FOR YEARS 1957 AND 1956

	1957	1956
Total attendance.....	1,097,561	1,101,512
Paid attendance.....	139,834	129,483
Free admissions on pay days		
Students.....	35,532	43,256
School children.....	167,779	128,880
Teachers.....	7,347	6,063
Members of the Museum.....	518	579
Service men and women.....	757	1,373
Special meetings and occasions.....	3,249	2,440
Press.....	7	35
Admissions on free days		
Thursdays (52).....	140,056	(52) 137,605
Saturdays (52).....	267,240	(52) 278,057
Sundays (52).....	335,242	(52) 373,741
Highest attendance on any day		
(May 4).....	13,382	(March 24) 12,937
Lowest attendance on any day		
(January 7).....	172	(January 9) 204
Highest paid attendance (September 2)...	3,541	(July 4) 3,781
Average daily admissions (363 days).....	3,024	(364 days) 3,026
Average paid admissions (207 days).....	675	(208 days) 622
<hr/>		
Number of picture postcards sold.....	221,896	225,401
Sales of Museum publications (scientific and popular), <i>General Guide</i> , and photographs; checkroom receipts....	\$27,501.56	\$24,221.95

CHICAGO NATURAL HISTORY MUSEUM

COMPARATIVE STATEMENT OF RECEIPTS AND EXPENDITURES CURRENT FUNDS

FOR THE YEARS 1957 AND 1956

GENERAL OPERATING FUND

RECEIPTS:	1957	1956
Endowment income—		
From investments in securities	\$ 352,608	\$ 321,785
From investments in real estate	404,118	373,147
	<u>\$ 756,726</u>	<u>\$ 694,932</u>
Chicago Park District—tax collections	\$ 238,704	\$ 241,832
Annual and sustaining memberships	30,825	28,680
Admissions	34,959	32,371
Sundry receipts, including general purpose contributions	56,144	51,105
Restricted funds transferred to apply against Operating Fund expenditures (contra)	107,831	90,659
	<u>\$1,225,189</u>	<u>\$1,139,579</u>
EXPENDITURES:		
Operating expenses—		
Departmental operating expenses	\$ 521,157	\$ 473,884
General operating expenses	423,919	396,910
Building repairs and alterations	116,628	98,118
	<u>\$1,061,704</u>	<u>\$ 968,912</u>
Collections—		
Purchases and expedition costs	\$ 62,816	\$ 64,441
Furniture, fixtures and equipment	25,545	24,927
Pensions and employees' benefits	69,301	61,928
Appropriations in lieu of premiums formerly payable on assigned life insurance		14,500
Provision for mechanical plant depreciation (contra)	10,000	10,000
Appropriated to cover operating deficit of the N. W. Harris Public School Extension		111
	<u>\$1,229,366</u>	<u>\$1,144,819</u>
DEFICIT FOR YEAR before special contribution and appropriation	\$ 4,177	\$ 5,240
Special contribution to liquidate 1956 deficit		5,240
Appropriation from restricted funds to cover 1957 deficit	<u>\$ 4,177</u>	<u> </u>

AUDITOR'S CERTIFICATE APPEARS ON FOLLOWING PAGE

CONTINUED ON NEXT PAGE

CHICAGO NATURAL HISTORY MUSEUM

COMPARATIVE STATEMENT OF RECEIPTS AND EXPENDITURES—CURRENT FUNDS

FOR THE YEARS 1957 AND 1956 (CONTINUED)

THE N. W. HARRIS PUBLIC SCHOOL EXTENSION FUND

	1957	1956
Income from endowments	\$ 28,766	\$ 27,215
Expenditures	<u>27,235</u>	<u>27,326</u>
SURPLUS (DEFICIT) FOR THE YEAR	<u>\$ 1,531</u>	<u>\$ (111)</u>

OTHER RESTRICTED FUNDS

RECEIPTS:	1957	1956
From Specific Endowment Fund investments . . .	\$ 67,212	\$ 65,894
Contributions for specified purposes	41,537	34,499
Operating Fund appropriations for mechanical plant depreciation (contra)	10,000	10,000
Sundry receipts—net	<u>66,657</u>	<u>68,379</u>
	\$ 185,406	\$ 178,772

EXPENDITURES:		
Transferred to Operating Fund—		
To apply against expenditures (contra)	\$ 107,831	\$ 90,659
To cover 1957 operating deficit	4,177	
Added to Endowment Fund principal	<u>75,386</u>	<u>48,000</u>
	\$ 187,394	\$ 138,659
EXCESS (DEFICIENCY) OF RECEIPTS OVER EXPENDI- TURES	<u>\$ (1,988)</u>	<u>\$ 40,113</u>

THE TRUSTEES,
CHICAGO NATURAL HISTORY MUSEUM,
CHICAGO:

In our opinion, the accompanying statement presents fairly the receipts and expenditures of the current funds of Chicago Natural History Museum for the years 1957 and 1956, in conformity with generally accepted accounting principles consistently applied during the years. Our examination of the statement was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

ARTHUR YOUNG & COMPANY

Chicago, Illinois
January 21, 1958

USE IN 1957 OF SPECIAL FUNDS CONTRIBUTED IN FORMER YEARS

EDWARD E. AYER LECTURE FOUNDATION FUND	
Cost of Museum lecture series.....	\$ 4,592.61
Subsidy to publication program.....	1,444.41
FREDERICK AND ABBY KETTELLE BABCOCK FUND	
Subsidy to publication program.....	1,272.62
EMILY CRANE CHADBOURNE ZOOLOGY FUND	
Expeditions.....	550.00
Purchase of specimens.....	1,150.00
WILLIAM J. AND JOAN A. CHALMERS TRUST FUND	
Equipment for the William J. and Joan A. Chalmers Mineralogical Laboratory.....	1,580.02
Purchase of specimens.....	150.00
MRS. JOAN A. CHALMERS BEQUEST FUND	
Purchase of specimens.....	264.17
CONOVER GAME-BIRD FUND	
Purchase of specimens.....	850.30
THOMAS J. DEE FELLOWSHIP FUND	
Fellowship grant to Evett D. Hester.....	1,800.00
Fellowship grant to A. G. C. Grandison.....	250.00
Fellowship grant to D. S. Rabor.....	750.00
Fellowship grant to Ram S. Singh.....	200.00
GROUP INSURANCE FUND*	
Group insurance costs.....	7,601.92
Subsidy to Pension Fund.....	5,698.97
N. W. HARRIS PUBLIC SCHOOL EXTENSION FUND	
Care of collections and distribution of exhibits to schools of Chicago.....	27,235.29
THE JOHNSON FOUNDATION	
Research on waxy palms.....	2,185.00
LIBRARY FUND†	
Purchase of books and periodicals.....	4,763.37
JAMES NELSON AND ANNA LOUISE RAYMOND PUBLIC SCHOOL AND CHILDREN'S LECTURE FUND	
Subsidy to public school and children's lecture programs.....	30,702.62
DONALD RICHARDS FUND	
Subsidy to cryptogamic botanical research.....	1,777.39
MAURICE L. RICHARDSON PALEONTOLOGICAL FUND	
Field trip for Coal Age fossils in Indiana.....	900.00

These funds have been used in accordance with the stipulations under which they were accepted by the Museum. In addition, the income from more than \$12,000,000 of contributed endowment funds was used in general Museum operation.

* Established by Stanley Field

† Established by Edward E. Ayer, Huntington W. Jackson, Arthur B. Jones, Julius and Augusta N. Rosenwald

Contributions and Bequests

Contributions and bequests to Chicago Natural History Museum may be made in securities, money, books, or collections. They may, if desired, take the form of a memorial to a person or cause, to be named by the giver. For those desirous of making bequests to the Museum, the following form is suggested:

FORM OF BEQUEST

I do hereby give and bequeath to Chicago Natural History Museum of the City of Chicago, State of Illinois:

Cash contributions made within the taxable year to Chicago Natural History Museum to an amount not in excess of 20 per cent of the taxpayer's net income are allowable as deductions in computing net income for federal income tax

ACCESSIONS 1957

DEPARTMENT OF ANTHROPOLOGY—ACCESSIONS

AREN, PAULINE P. (estate of), Chicago: Chinese hanging—China (gift)

BASCOM, DR. WILLIAM R., Berkeley, California: 4 specimens of primitive art—West Africa (gift)

BENTLEY, MRS. W. C., Chicago: lady's gown—China (gift)

BIEBER, MISS C. F., Santa Fe: cotton shirt, fiber basket, sleeveless jacket—Borneo (gift)

BROWN, MISS FANNY P., Harwichport, Massachusetts: Chinese seven-stringed lute (*ch'in*)—China (gift)

BURLEY, MRS. F. L., Chicago: Woodland pot—Indiana (gift)

CHICAGO NATURAL HISTORY MUSEUM:

Collected by Dr. Paul S. Martin (Southwest Archaeological Expedition, 1957): 20 restorable and 5 intact pottery vessels, 267 stone, bone, shell, and baked-clay artifacts, and 3 fragmentary human skeletons—Vernon Sites 30 and 31, Little Ortega Lake Site, Laguna Salada Site, Phipps Ranch Site, and Curtis Site

Purchases: 17 pieces of Japanese and Ryukyuan resist-dyed textiles, 15 prehistoric Peruvian textiles, 3 lacquer dishes (Ch'angsha Ch'u of ancient China), Tibetan temple painting

COOK, MR. AND MRS. PAUL M., Duanellon, Florida: 13 archaeological specimens—Arizona and Iowa (gift)

DAVIS, WALKER B., Chicago: knife, 2 woven mats—Philippines (gift)

FIELD, DR. HENRY, Coconut Grove, Florida: 10 stone projectile points—Arabia (gift)

GLOVER, MISS FRANCES, Chicago: 5 wooden combs—Burma (gift)

GRAHAM, DR. DAVID C., Englewood, Colorado: 317 Chinese rubbings representing Han and post-Han periods, 141 Tibetan woodblock prints, Miao *gaign* (Chinese, *liu-sheng*) wind instrument, wood specimen from the ancient Ch'u city of Ch'angsha—China (gift)

HAN, MISS NYUNT, Rangoon, Burma: 2 lacquerware table-mats—India (gift)

HESTER, EVETT D., Jeffersonville, Indiana: 132 pieces from Hester Collection of Philippine ceramic recoveries (final part of 3-part collection that has been presented)—Philippines (gift)

KOCH, RAYMOND, Winnetka, Illinois: 5 modern Pueblo pottery vessels—Arizona and New Mexico (gift)

LANGEWIS, J., Kyoto, Japan: piece of Japanese resist-dyed textile—Japan (gift)

LONG, LEWIS E., Harrison, Arkansas: potsherds—Afghanistan (gift)

PINSOF, PHILIP, Wilmette, Illinois: 2 Japanese inros, Chinese jade piece, Chinese pendant—Japan and China (gift)

PLASS, MRS. WEBSTER, New York and London: African mask headdress—East Africa (exchange)

QUIMBY, G. EDWARD, Chicago: bark-cloth breech clout—New Guinea (gift)

SCHMIDT, MRS. C. L., Chicago: pair of Chinese shoes worn by woman with bound feet, 25 articles of children's clothing from about 1900—China (gift)

SCHULTZ, CLYDE, Chicago: collection of about 200 archaeological specimens—Orland and Palos townships, Illinois (gift)

TAUBENHAUS, DR. MATTHEW, Chicago: photographs of rubbings of 5 of the 6 charges of Tang T'ai-Tsung—China (gift)

TELLER, SIDNEY A., Chicago: 2 specimens of San Blas Indian appliquéd textiles, snuff bottle, pair of embroidered sleeve-borders, embroidered table-piece—Panama and China (gift)

THUROW, D. R., Champaign, Illinois: 84 African ethnological specimens, Ivory Coast—West Africa (gift)

TRIER, ROBERT, McKenzie Bridge, Oregon: stone figure (double) sculpture

in low relief, Borabora Island—Polynesia (gift)

VON GUNTEN, MRS. CARL, Wheaton, Illinois: tapa-cloth robe and belt, large

sheet of inner bark used in manufacture of tapa cloth—Polynesia (gift)

WHITEHAIR, JAMES, Chicago: wooden Buddhist image—Korea (gift)

DEPARTMENT OF BOTANY—ACCESSIONS

AGUILAR G., JOSÉ IGNACIO, Guatemala City: 1,000 plant specimens (gift)

ARISTEGUIETA, DR. LEANDRO, Caracas, Venezuela: 120 plant specimens (exchange); 45 plant specimens (gift)

BARTEL, KARL E., Blue Island, Illinois: 9 plant specimens (gift)

BENNETT, HOLLY REED, Chicago: 1,605 plant specimens (gift)

BIRDSEY, M. R., Coral Gables, Florida: photostat, plant specimen (gift)

BOELCKE, OSVALDO, Buenos Aires: 104 plant specimens (exchange)

BREITUNG, A. J., Pasadena: plant specimen (gift)

CALIFORNIA, UNIVERSITY OF, Berkeley: 135 cryptogamic specimens (exchange)

CHICAGO NATURAL HISTORY MUSEUM:
Collected by Dr. Julian A. Steyermark (field trips): 5,024 plant specimens

Collected by Dr. John W. Thieret (field trips): 970 plant specimens, 12 wood specimens, 12 seed samples

Purchases: 100 plant specimens—Australia; 500 plant specimens—Colombia; 155 plant specimens—Cyprus; 675 plant specimens—England; 14 wood specimens—Fiji; 204 plant specimens—Mexico; 345 plant specimens—Pakistan; 1,539 photographs

DASTON, J. S., Chicago: 3 photographs (gift)

DAVENPORT PUBLIC MUSEUM, Davenport, Iowa: 21 plant specimens (gift)

DEGLER, ROY H., Jefferson City, Missouri: plant specimen (gift)

DICKINSON COMPANY, ALBERT, Chicago: plant specimen (gift)

DONALD RICHARDS FUND: 50 mosses—New Zealand

DORAN, JACK, Barrington, Illinois: plant specimen (gift)

FIELD, DR. HENRY, Coconut Grove, Florida: 3 cryptogamic specimens, plant specimen, 7 economic specimens (gift)

FOREST PRODUCTS LABORATORY, Madison, Wisconsin: 58 wood specimens (exchange)

FOREST PRODUCTS LABORATORY, Ottawa, Canada: 56 wood specimens (exchange)

GEORGIA, UNIVERSITY OF, Athens: 5 plant specimens (gift)

GEORGIA EXPERIMENT STATION, Experiment: 2 seed samples (gift)

GREGG, DR. CLIFFORD C., Valparaiso, Indiana: 12 cryptogamic specimens, 11 plant specimens (gift)

HANSEN, CHESTER E., Chicago: 3 plant specimens (gift)

HAWAII, BOARD OF COMMISSIONERS OF AGRICULTURE AND FORESTRY, Honolulu: 45 wood specimens (exchange)

HERMANN, A. J., Chicago: 2 wood specimens (gift)

HERSHEY CHOCOLATE CORPORATION, Hershey, Pennsylvania: several economic specimens (gift)

ILLINOIS NATURAL HISTORY SURVEY, Urbana: 20 plant specimens (exchange)

ILLINOIS STATE MUSEUM, Springfield: 3 plant specimens (exchange)

INSTITUTE OF JAMAICA, Kingston: 58 plant specimens (exchange)

ISTITUTO NAZIONALE DEL LEGNO, Firenze, Italy: 47 wood specimens (exchange)

JARDIM BOTANICO DO RIO DE JANEIRO, Rio de Janeiro, Brazil: 251 plant specimens (exchange)

JARDIN BOTANICO MUNICIPAL, Buenos Aires, Argentina: 52 seed samples (exchange)

JARDIN BOTANIQUE DE L'ETAT, Brussels, Belgium: 203 plant specimens (exchange)

KAUSEL, DR. EBERHARD, Santiago, Chile: 498 plant specimens (exchange)

LAUGHLIN, KENDALL, Chicago: 14 plant specimens (gift)

LEVI, DR. URSULA, Santiago, Chile: 12 plant specimens (gift)

LILLY AND COMPANY, ELI, Indianapolis: 12 plant specimens, 10 drug samples (gift)

MICHIGAN, UNIVERSITY OF, Ann Arbor: 757 plant specimens (exchange)

MINER, CARL S., Chicago: fungus (gift)

MINISTERIA DE AGRICULTURA Y CRIA DE VENEZUELA, Caracas: plant specimen (gift)

MINNESOTA, UNIVERSITY OF, Minneapolis: 91 plant specimens, 82 seed samples (exchange)

MISSOURI, UNIVERSITY OF, Columbia: 118 plant specimens (exchange)

MISSOURI BOTANICAL GARDEN, St. Louis: 4 plant specimens (exchange); 100 ferns (gift)

MORTON ARBORETUM, Lisle, Illinois: 74 seed samples (gift)

NATIONAL BOTANIC GARDENS, Newlands, South Africa: 85 seed samples (exchange)

NEW YORK BOTANICAL GARDEN, New York: 391 plant specimens, 75 photographs (exchange)

NOGLE, HAROLD, Port Arthur, Texas: 4 plant specimens (gift)

NORTH COAST HERBARIUM, Santa Rosa, California: 29 plant specimens (gift)

OAKS, ORVILLE A., Wilmette, Illinois: 24 wood specimens (gift)

OGLE, PETER K., Paoli, Pennsylvania: 3 plant specimens, seed sample (gift)

OKLAHOMA AGRICULTURAL AND MECHANICAL COLLEGE, Stillwater: plant specimen (gift)

PACHECO H., DR. MARIANO, Guatemala City: 9 plant specimens (gift)

PAHNKE, MR. AND MRS. HERBERT, Chicago Heights, Illinois: plant specimen (gift)

PAKISTAN, MINISTRY OF AGRICULTURE, Karachi: 4 seed samples (gift)

PALMER, ERNEST J., Webb City, Missouri: 819 plant specimens (gift)

PALSER, DR. BARBARA, Chicago: 10 plant specimens (gift)

PUNJAB AGRICULTURAL COLLEGE, Karachi, Pakistan: 5 seed samples (gift)

RANCHO SANTA ANA BOTANIC GARDEN, Claremont, California: 832 seed samples (exchange)

REGIONAL PLANT INTRODUCTION STATION, Ames, Iowa: 4 seed samples (gift)

RHODESIA, FOREST DEPARTMENT, Kitwe, Northern Rhodesia: 8 wood specimens (exchange)

RUSSOW, RICHARD W., Chicago: wood specimen (gift)

SEGAL, SIMON, Chesterton, Indiana: plant specimen (gift)

SHERFF, DR. EARLE E., Hastings, Michigan: 18 plant specimens, 5 photographs, 3 negatives (gift)

SOUKUP, J., Lima, Peru: 20 plant specimens (exchange)

SWINK, FLOYD A., River Forest, Illinois: 63 plant specimens (gift)

TAIWAN FOREST ADMINISTRATION, Taiwan, China: 20 wood specimens (exchange)

TASMANIA, FORESTRY COMMISSION, Hobart: 15 wood specimens (exchange)

TENNESSEE, UNIVERSITY OF, Knoxville: 208 cryptogamic specimens (exchange)

THIERET, DR. JOHN W., Homewood, Illinois: 141 plant specimens (gift)

UNITED STATES DEPARTMENT OF AGRICULTURE: 2 wood specimens (gift)

VASQUEZ, A. ALVAN, Iquitos, Peru: 6 plant specimens, 5 wood specimens (gift)

WAIT, MRS. L. H., Miami, Florida: plant specimen (gift)

DEPARTMENT OF GEOLOGY—ACCESSIONS

ACADEMY OF SCIENCES OF THE U.S.S.R., Minsk: specimen of Hressk meteorite—Minsk region (exchange)

BOAS, DR. GLENN, Chicago: specimen of *Arthropleura*—Illinois (gift)

CHICAGO NATURAL HISTORY MUSEUM:
Collected by Dr. Robert H. Denison and Bruce Erickson (New York State Paleontological Field Trip, 1957): 222

specimens of fossil fishes, plants, and invertebrates—Pennsylvania

Collected by Dr. Eugene S. Richardson, Jr. (field work): undetermined insect and scorpion and specimen of *Adelophthalmus mazonensis*—Illinois

Collected by William D. Turnbull and Orville L. Gilpin (Wyoming Paleon-

tological Expedition, 1957): collection of fossil mammals—Wyoming

Collected by Dr. Rainer Zangerl and Dr. Eugene S. Richardson, Jr. (field work): collection of fossil fishes and specimen of *Cochlidont* tooth—Indiana

Collected by Dr. Rainer Zangerl, Dr. Eugene S. Richardson, Jr., and William D. Turnbull (field work): collection of *Cucullaea neglecta*—New Jersey

Purchases: mineral specimens, fossil egg—various localities

CZYZEWICZ, TEDDY, Chicago: fossil insect-wing, annelid, 2 plant nodules—Illinois (gift)

DOUGLAS, MRS. WALTER, Phoenix, Arizona: polished section of petrified palm-trunk, petrified wood (*Schaldaria adamanacus*), specimens of silicified tree-ferns, specimen of septarian concretion—various localities (gift)

FIELD, DR. HENRY, Coconut Grove, Florida: approximately 136 species of Pleistocene seashells and coquina samples—Florida (gift)

FLORIDA GEOLOGICAL SURVEY, Tallahassee: casts of *Merychippus* teeth (exchange)

GLOVER, MISS FRANCES, Chicago: package of ruby dust—Burma (gift)

GOUGH, DR. GLENN T., Topeka, Kansas: specimens of celestite, specimen of gypsum with selinite, geode filled with calcite crystals, calcite "cone in cone," specimen of fossiliferous limestone—Kansas (gift)

HEALY, MRS. H., Chicago: various mineral specimens—various localities (gift)

HOTCHKISS, A. R., Evanston: groutite crystals—Minnesota (exchange); groutite crystal aggregate, groutite with hematite—Minnesota (gift)

ILLINOIS MINERALS COMPANY, Cairo: earthy mass—Illinois (gift)

JUANITA MINES AND LABORATORIES, Blythe, California: various quartz specimens—California (gift)

KJELLESVIG-WAERING, ERIK N., Jamaica: Permian bryozoan (*Fenestella*)—western Guatemala (gift)

MARSHALL, BYRON C., Hot Springs National Park, Arkansas: aggregate of quartz crystals—Arkansas (gift)

MINNESOTA, UNIVERSITY OF, Minneapolis: *Desmatochelys lowi* Williston (vertebrae, carapace, girdles, limb elements)—South Dakota (exchange)

OZARK BIOLOGICAL LABORATORIES, Hot Springs National Park, Arkansas: specimen of nodular pyrite—Arkansas (gift)

PETERS, RONALD E., Chicago: fossil stem of tree-fern (gift)

PIVORUNAS, AUGUST, Chicago: Polychaete worm—Illinois (exchange)

REICHEL-DOLMATOFF, GERARDO, Cartagena, South America: 450 vertebrate and invertebrate specimens—northwestern Colombia (gift)

ROWLEY, ELMER B., Glen Falls, New York: collection of minerals—New York (gift)

RUSSELL, JOHN E., Bloomington, Indiana: baby-mammoth tooth—Indiana (gift)

SCHMIDT, DR. WOLFGANG, Krefeld, Germany: plaster cast and rubber mold of *Herbstia herbsti* (exchange)

SHIMIZU, K., Chicago: 45 specimens of fossil mammals—Wyoming (gift)

SINKANKAS, CAPTAIN JOHN, Arlington, Virginia: specimens of hambergite—California (gift)

SPEIGHT, GLENN, West Branch, Iowa: specimen of *Goniophyllum*—Iowa (gift)

STURTEVANT, ROY, Chicago: specimens of dendritic sandstone—Arkansas (gift); specimens of autunite—Maine (gift)

TEXAS, UNIVERSITY OF, Austin: cast of *Amphicyon* specimen (exchange)

WILLIAM J. CHALMERS CRYSTAL FUND: fossil palm-leaves—Colorado; A.P.I. clay mineral reference specimens—various localities; wulfenite crystal group—Mexico; polished section of fossil palm-trunk—Texas; specimen of wulfenite crystal—Arizona

DEPARTMENT OF ZOOLOGY—ACCESSIONS

ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA, Philadelphia: 268 non-marine mollusks—North America and Mexico (exchange); 284 lots of land-snails—Europe (gift)

AMERICAN MUSEUM OF NATURAL HISTORY, New York: bird—Afghanistan (exchange)

ARAUJO, RENATO, São Paulo, Brazil: 121 army ants—Brazil (gift)

BARTEL, KARL, Blue Island, Illinois: 16 gall wasps—Illinois (gift)

BILLINGSLEY, GARY, Alpine, Texas: fairy shrimp—Texas (gift)

BOHART, DR. RICHARD M., Davis, California: 63 mosquitoes—Ryukyu Islands (gift)

BOULTON, RUDYERD, Washington, D.C.: 175 birds—Angola (gift)

BRITISH MUSEUM (NATURAL HISTORY), London: 2 lizards—Borneo; 29 beetles—worldwide (exchange)

BROWN, DR. WALTER C., Stanford, California: 4 lizards—Philippines (exchange)

CALIFORNIA ACADEMY OF SCIENCES, San Francisco: 2 land snails—California (exchange)

CALIFORNIA AT LOS ANGELES, UNIVERSITY OF, Los Angeles: 639 fishes—Mexico, Costa Rica, Panama, Clipper-ton Island, California, and Australia (exchange); 2,041 fishes—various localities (gift)

CAMP, DR. CHARLES, Berkeley, California: 5 reptiles and amphibians—California (gift)

CARNEGIE MUSEUM, Pittsburgh: frog—Philippines (exchange); 3 fishes—Guam and Colombia (gift)

CHERRY, WALTER, Winnetka, Illinois: approximately 2,500 seashells—various localities (gift)

CHICAGO NATURAL HISTORY MUSEUM:

Collected by Henry S. Dybas (North-west Pacific Coast Zoological Field Trip, 1957): 92 snails and slugs—California and Oregon

Collected by Dr. Robert F. Inger (local field work): 4 turtles, frog—United States

Collected by Celestino Kalinowski (Peru Zoological Expedition, 1956–1957): 386 mammals, 241 birds, 260 insects and ectoparasites, 58 nonmarine shells—Peru

Collected by D. S. Rabor (Philippine Zoological Field Work, 1957): 264 mammals, 1,639 birdskins, 505 reptiles and amphibians—Philippines

Collected by Kjell von Sneidern (Colombia Zoological Expedition, 1957): 444 mammals, 1,989 ectoparasites, 19 fishes, 67 reptiles and amphibians—Colombia

Collected by Loren P. Woods (Co-operative Field Work with United States Fish and Wildlife Service in Western Caribbean, 1957): 5,210 fishes—western Caribbean

Collected by Loren P. Woods (local field trip): 62 fishes—Lake Michigan (Chicago)

Purchases: 171 mammals, 864 birds, 55,512 insects, 8 lots of fishes, 370 reptiles and amphibians, 49,897 lower invertebrates

CHICAGO ZOOLOGICAL SOCIETY, Brookfield, Illinois: 13 mammals, 8 birds, 2 lizards—various localities (gift)

CINCINNATI MUSEUM, UNIVERSITY OF, Cincinnati: bird—Paraguay (exchange)

COHEN, DR. DAVID, Stanford, California: 4 fishes—Spain (gift)

DOMERGUE, DR. CHARLES A., Tunis, Tunisia: 15 lizards—Tunisia (exchange)

DOMINION MUSEUM, Wellington, New Zealand: 25 land and fresh-water snails—New Hebrides (gift)

DRAKE, DR. CARL J., Washington, D.C.: 2 water-striders—Florida (gift)

DUEVER, MICHAEL, Chicago: rattlesnake—Illinois (gift)

EFFINGHAM COUNTY FARM BUREAU, Effingham, Illinois: 2 slugs—Illinois (gift)

EIGSTI, W. E., Hastings, Nebraska: 61 ectoparasites—Nebraska and Florida (gift)

ELLIS, A. E., Epsom, England: 37 specimens and 72 lots of fresh-water clams—Europe (gift)

ESCALENTE, RODOLFO, Montevideo, Uruguay: 2 birds—Uruguay (gift)

FIELD, DR. HENRY, Coconut Grove, Florida: 85 millipedes, 42 centipedes, 5 lots of fishes, 103 reptiles and amphibians, 53 lots of lower invertebrates—Florida (gift)

FLORIDA, UNIVERSITY OF, Gainesville: 3 birds—Mexico and Florida (exchange); 2 fishes—Florida (gift)

FOUCHE, MRS. RUTH ALLEN, Chicago: 80 lower invertebrates—Puerto Rico (gift)

FRANZEN, ALBERT J. (deceased), Chicago: 3 pocket gophers—Illinois (gift)

FRANZEN, DR. DOROTHEA, Bloomington, Illinois: 44 nonmarine shells—Minnesota (gift)

FREIHOFFER, W. C., Stanford, California: 29 fishes—California (gift)

GAGE, LLOYD G., Yuma, Arizona: 10 lower invertebrates—Gulf of California (gift)

GENERAL BIOLOGICAL SUPPLY HOUSE, Chicago: 13 sea-snakes—California

(gift); 4 microscope slides of protozoans (gift)

GROW, RAYMOND, Gary, Indiana: bat—Indiana (gift)

HAAS, GLENN E., Deerfield, Illinois: 13 fleas, 22 ticks—Wisconsin (gift)

HAINES, PROFESSOR R. WHEELER, Baghdad, Iraq: wild pig—Iraq (gift)

HEBREW UNIVERSITY, Jerusalem, Israel: 18 lots of fishes—Israel (exchange)

HOOGSTRAAL, HARRY, Cairo, Egypt: 122 mammals, 41 birds, 19 bat ticks, 54 reptiles and amphibians—Egypt and Tanganyika (gift)

HUBRIGHT, LESLIE, Louisville, Kentucky: 27 fresh-water clams—Kentucky (gift)

ILLINOIS, UNIVERSITY OF, Urbana: blind cavefish—Indiana (gift)

INGER, DR. ROBERT F., Homewood, Illinois: fish—Louisiana (gift)

INSTITUT DES PARCS NATIONAUX DU CONGO BELGE, Brussels, Belgium: 510 frogs—Belgian Congo (exchange)

INSTITUTE FOR MEDICAL RESEARCH, Kuala Lumpur, Malaya: 10 chigger mites—Malaya (gift)

JERKINS, TRUDIE, Tarpon Springs, Florida: frog—Colombia (gift)

JOHNSON, ROBERT A., Urbana, Illinois: bird—Siam (exchange)

KIRTISINGHE, DR. P., Colombo, Ceylon: 15 frogs—Ceylon (gift)

KISTNER, DR. DAVID, Rochester, New York: 2,892 insects—United States and exotic (gift)

KOBAYASHI, K., Kobe, Japan: 32 birds—Japan (exchange)

KRAUSS, DR. N. L. H., Honolulu, Hawaii: lizard—North Borneo (exchange); 15 insects, 19 lower invertebrates, 15 reptiles and amphibians—Africa (gift); 5 lizards—Wake Island (gift)

LAIRD, DR. MARSHALL, Quebec: 24 reptiles and amphibians, 7 lots of tadpoles—Singapore (gift)

LINCOLN PARK ZOO, Chicago: 5 mammals, 2 lizards—various localities (gift)

LUCKOW, MRS. GEORGE, Evanston, Illinois: 224 insects—mostly Austria (gift)

MACDOUGALL, THOMAS, New York: 2 eels—locality unknown (gift)

MALKIN, BORYS, Minneapolis: 2 fresh-water clams—Brazil (gift)

MAUL, DR. G. E., Funchal, Madeira, 6 fishes—Funchal Bay (gift)

MCREYNOLDS, JOHN W., Atchison, Kansas: 44 beetles—various localities (exchange)

MEDEM, DR. FREDERICK J., Bogotá, Colombia: 3 turtles, 10 crocodile eggs, crocodile skull—Colombia (gift)

MEYER, DR. M., Rostock, Germany: 8 lots of frog larvae—Germany (exchange)

MICHIGAN, UNIVERSITY OF, MUSEUM OF ZOOLOGY, Ann Arbor: 17 nonmarine snails—Venezuela (exchange); 37 land-snails—New Hebrides (gift)

MISSISSIPPI GAME AND FISH COMMISSION, Jackson: salamander—Mississippi (exchange)

MOORE, DONALD R., Ocean Springs, Mississippi: 18 bivalve shells—Alabama (gift)

MOYER, JOHN T., care of APO, San Francisco: 31 birds—Japan (gift)

MUSEUM AND ART GALLERY, Durban, Natal, Union of South Africa: 2 birds—South Africa (gift)

MUSEUM OF COMPARATIVE ZOOLOGY, Cambridge, Massachusetts: 4 frogs—Borneo (exchange); 110 landsnails—Bismark and Solomon Islands (exchange)

MUSEUM G. FREY, Munich, Germany: 667 beetles—Europe, Asia, North Africa (exchange)

NATIONAL MUSEUM, Manila: 44 birds—Philippines (exchange)

NATUR-MUSEUM UND FORSCHUNGSMUSEUM SENCKENBERG, Frankfurt-am-Main, Germany: 150 beetles—mostly Europe (exchange)

NICEFORO MARIA, HERMANO, Bogotá, Colombia: 4 turtles—Colombia (gift)

PACIFIC SALMON INVESTIGATIONS, Seattle: 2 fishes—Pacific Ocean (gift)

PASHO, MAJOR R. E., care of APO, San Francisco: frog, lizard—Borneo (gift)

PHELPS, WILLIAM H., Caracas, Venezuela: bird—Venezuela (gift)

PHILIP, DR. CORNELIUS B., Hamilton, Montana: 2 horseflies—Philippines (gift); 6 tabanid flies—Malaya, Manchuria, and Philippines (gift)

RAFFLES MUSEUM, Singapore: 7 lizards—Borneo (gift)

RAND, A. STANLEY, Chesterton, Indiana: 48 reptiles and amphibians—Germany (gift)

RAY, EUGENE, Morton Grove, Illinois: 32 beetles—United States (gift)

RICHARDSON, PROFESSOR L. R., Wellington, New Zealand: 4 fishes—New Zealand (exchange)

ROGERS, MRS. RUDOLF J., Chicago: sea-turtle—Ryukyu Islands (gift)

ROSS, MISS LILLIAN A., Chicago: 8 reptiles and amphibians—Cayman Islands (gift)

SARAWAK MUSEUM, Kuching: 60 reptiles and amphibians, 190 mammals—Borneo (exchange)

SCHMIDT, DR. KARL P. (deceased), Homewood, Illinois: 11 lizards—Texas and China (gift)

SCHWENGEL, DR. JEANNE S., Scarsdale, New York: 100 marine shells—worldwide (gift)

SELANDER, DR. RICHARD B., Urbana, Illinois: 30 beetles—United States and Mexico (exchange); 2 beetles—Utah (gift)

SHEDD AQUARIUM, JOHN G., Chicago: crab—upper Florida Keys (gift); fish—locality unknown (gift)

SIEGEL, SIMON, Porter, Indiana: owl—Indiana (gift)

SMITH, ALLYN G., San Francisco: 2 land snails—Idaho (gift)

STADELMAN, RAYMOND E., Medellin, Colombia: 2 bats, 38 reptiles and amphibians—Colombia (gift)

STROHECKER, DR. HENRY F., Coral Gables, Florida: 18 beetles (gift)

TEXAS, UNIVERSITY OF, Austin: 11 fishes—Mexico (gift)

THEROND, JEAN, Nimes, France: 47 beetles—various localities (exchange)

TIERPARK HELLABRUNN, Munich, Germany: 2 European bison—Europe (gift)

TRINIDAD REGIONAL VIRUS LABORATORY, Port of Spain: 50 bat flies—Trinidad (exchange)

UNITED STATES FISH AND WILDLIFE SERVICE, Pascagoula, Mississippi: 36 lots of fishes of Atlantic and Pacific oceans, 137 fishes of various localities, 60 invertebrates of Gulf of Mexico, 13 invertebrates of Atlantic Ocean, Gulf of Mexico, and Caribbean Sea (gift); and Seattle, Washington: 5 fishes—Pacific Ocean (gift)

UNITED STATES GEOLOGICAL SURVEY, Washington, D.C.: 12 snails—Palau Islands (gift)

UNITED STATES NATIONAL MUSEUM, Washington, D.C.: lizard—Peru (exchange); 149 landshells—various localities (exchange)

WELD, DR. LEWIS H., Arlington, Virginia: 67 gall wasps—United States (gift)

WERLER, JOHN E., Houston: lizard—Mexico (gift)

WESBY, VERNON, Chicago: 3 fishes—Canada (gift)

WILIMOVSKY, DR. NORMAN, Stanford, California: 123 fishes—Alaska (gift)

WILLIAMS, LOUIS AND RUA, Bethesda, Maryland: shrew—Honduras (gift)

WOODS, LOREN P., Homewood, Illinois: 25 fishes—Lake Michigan (gift)

YUNKER, DR. CONRAD, Cairo: lizard—Egypt (gift)

ZEIDLER, HERBERT, Cologne, Germany: 50 birds—various localities (exchange)

ZOÖLOGISCH MUSEUM, Amsterdam, Netherlands: 20 fresh-water shells—Yugoslavia (exchange)

ZOOLOGISCHES FORSCHUNGSINSTITUT UND MUSEUM ALEXANDER KOENIG, Bonn, Switzerland: bird—South-West Africa (exchange)

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CHICAGO NATURAL HISTORY MUSEUM:
Made by Division of Photography—
1,770 negatives, 22,098 prints, 986 en-

largements, 252 lantern slides, 454 kodachromes, 3 transparencies

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INTERNATIONAL FILM BUREAU, INCORPORATED, Chicago: "Color of Life" (1,000-foot color-sound film)—purchase

MCGRAW-HILL FILMS, New York: "Life in a Garden" (500-foot color-sound film)—purchase

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Representative Accessions

(Acquired by Gift, Exchange, or Purchase)

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- Groemming, Ewald, *Biologie der mitteleuropäischen Süßwasserschnecken* (1956)
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Societas entomologica. v. 30–44 (1915–29)

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 Durbin, Fletcher M.
- Easterberg, C. J.
 Eastman, Mrs. George H.
 Eaton, J. Frank
 Ebeling, Frederic O.
 Ebin, Mrs. Dorothy
 Mylrea
 Edelson, Dave

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Edwards, Miss Edith E.
 Eger, Gerard J.
 Ehlers, Clarence P.
 Eichengreen, Edmund K.
 Eichler, Robert M.
 Eiseman, Fred R.
 Eisenberg, Sam J.
 Eisendrath, Edwin W.
 Eisendrath, Miss
 Elsa B.
 Eisendrath, William B.
 Eisenhower, Earl D.
 Eisenschiml, Mrs. Otto
 Eisenstein, Sol
 Elcock, Mrs. Edward G.
 Ellich, Robert William
 Ellbogen, Miss Celia
 Elliott, Frank R.
 Ellis, Mrs. G. Corson
 Ellis, Howard
 Elvgren, Gillette A.
 Embree, Henry S.
 Embree, J. W., Jr.
 Emery, Edward W.
 Emmerich, Miss Clara L.
 Engberg, Miss Ruth M.
 English, Harold
 English, William L.
 Engstrom, Harold
 Erdmann, Mrs. C. Pardee
 Ericson, Mrs. Chester F.
 Ericsson, Clarence
 Ericsson, Dewey A.
 Ericsson, Walter H.
 Erikson, Carl A.
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 Esgar, R. Rea
 Etten, Henry C.
 Evans, Miss Anna B.
 Evans, Eliot H.
 Everett, William S.

Fabrice, Edward H.
 Facktt, Mrs. George P.
 Fader, A. L.
 Faherty, Roger
 Faithorn, Walter E.
 Fallon, Mrs. B. J.
 Fallon, Dr. W. Raymond
 Falls, Dr. A. G.
 Farnham, Mrs. Harry J.
 Farrell, Mrs. B. J.
 Farwell, John V., III
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 Fay, Eugene C.
 Feinstein, Edward
 Howard
 Feiwell, Morris E.
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 Felsenthal, Edward
 George

Fennekohl, Mrs.
 Arthur C.
 Fernald, Robert W.
 Field, Meyer
 Filkins, A. J.
 Fineman, Oscar
 Finley, Max H.
 Finnegan, Mrs.
 Edward R.
 Finnerud, Dr. Clark W.
 Firsell, Maurice S.
 Fish, Mrs. Helen S.
 Fishbein, Dr. Morris
 Fisher, Harry M.
 Fisk, Mrs. Burnham M.
 Fiske, Kenneth M.
 Fleischman, Miss Anne
 Fleming, Mrs. Joseph B.
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 Florsheim, Irving S.
 Folonie, Mrs. Robert J.
 Folsom, Mrs. William R.
 Foote, Mrs. Harley T.
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 Foreman, Mrs.
 Alfred K.
 Foreman, Edwin G., Jr.
 Foreman, Harold E.
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 Forgan, Robert D.
 Forman, Charles
 Forster, J. George
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 Foster, Mrs. Charles K.
 Fox, Jacob Logan
 Fox, Dr. Paul C.
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 Frankenstein, William B.
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 Lester E., Jr.
 Franklin, Egington
 Frazer, Mrs. George E.
 Freda, Dr. Vincent C.
 Freeman, Charles Y.
 Freeto, Clarence E.
 Freiler, Abraham J.
 French, Dudley K.
 Frenier, A. B.
 Freudenthal, G. S.
 Frey, Charles Daniel
 Freyn, Henry J.
 Fridstein, Meyer
 Friedlander, William
 Friedlich, Mrs. Herbert
 Fritsch, Miss Josephine
 Fuller, Mrs. Gretta
 Patterson
 Fuller, J. E.

Fuller, Judson M.
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 Gabriel, Adam
 Gaertner, William
 Galgano, John H.
 Gall, Harry T.
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 Gallup, Rockwell L.
 Galt, Mrs. A. T.
 Gamble, D. E.
 Garcia, José
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 Gardner, Addison L., Jr.
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 Gardner, Henry A.
 Gardner, Henry K.
 Garen, Joseph F.
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 Gear, H. B.
 Gebhardt, Alfred E.
 Gehl, Dr. W. H.
 Gehrman, Felix
 Geiger, Alfred B.
 Geiling, Dr. E. M. K.
 Geittmann, Dr. W. F.
 Geldmeier, Dr. Erwin F.
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 Gensburg, Samuel H.
 Gentry, Veit
 Gentz, Miss Margaret
 Nina
 Gerding, R. W.
 Gerngross, Mrs. Leo
 Gettelman, Mrs.
 Sidney H.
 Gettleman, Frank E.
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 Gibson, Paul
 Gibson, Truman K., Jr.
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 Gidwitz, Victor E.
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 Gifford, Mrs.
 Frederick C.
 Gilchrist, Mrs. John F.
 Gilchrist, Mrs. William
 Albert
 Giles, Mrs. Guy H.
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 Glade, David Bruce

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- Glaescher, Mrs. G. W.
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 Glick, Louis G.
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 Goes, Mrs. Arthur A.
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 Goldblatt, Joel
 Golding, Robert N.
 Goldstein, Dr. Abraham
 Goldstein, Dr. Helen L.
 Button
 Goldstein, Nathan S.
 Goldy, Walter I.
 Goltra, Mrs. William B.
 Goode, Mrs. Rowland T.
 Goodfriend, S. L.
 Goodman, Benedict K.
 Goodman, Mrs. Milton F.
 Goodman, William E.
 Goodwin, George S.
 Gordon, Colin S.
 Gordon, Harold J.
 Gordon, Dr. Richard J.
 Gordon, Mrs. Rowland T.
 Gorrell, Mrs. Warren
 Gottlieb, Frederick M.
 Gould, Jay
 Gould, Mrs. June K.
 Grade, Joseph Y.
 Graham, Douglas
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 Margaret H.
 Gramm, Mrs. Helen
 Granger, Mrs. Lillian M.
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 Grant, John G.
 Graves, Austin T.
 Graves, Howard B.
 Grawoig, Allen
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 Gray, Philip S.
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 Greene, Howard T.
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 Brooks
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 Greenwald, Herbert S.
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 Griffenhagen, Mrs.
 Edwin O.
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 Griffith, Mrs. William
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 Grizzard, James A.
 Groak, Irwin D.
 Grohe, Robert F.
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 Groot, Cornelius J.
 Grosberg, Charles
 Grossman, Frank I.
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 William J.
 Grotowski, Mrs. Leon
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 Winfield A.
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 Charles C., Jr.
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 Halverstadt, Romaine M.
 Hamm, Fred B.
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 Hansen, Jacob W.
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 Harders, Mrs. Flora
 Rassweiler
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 Harrington, David L.
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 Hart, Max A.
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 Harvey, Richard M.
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 Haugen, Bernhart
 Hawkes, Joseph B.
 Hay, Mrs. William
 Sherman
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 Hayes, Miss Mary E.
 Haynie, Miss Rachel W.
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 Hazlett, Mrs. William H.
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 Heaton, Herman C.
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 Herwig, William D., Jr.
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 Eugene, Jr.
 Hildebrand, Grant M.
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 Hill, Mrs. Russell D.
 Hille, Dr. Hermann
 Hind, Mrs. John Dwight
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 Hintz, Mrs. Aurelia
 Bertol

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Hoffman, Raymond A.
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Holmes, J. A.
Holmes, William
Holmes, William N.
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Holt, McPherson
Holub, Anthony S.
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Hoover, H. Earl
Hoover, Ray P.
Hope, Alfred S.
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Horton, Horace B.
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Hrdlicka, Mrs. John D.
Huber, Dr. Harry Lee
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Hufty, Mrs. F. P.
Huggins, Dr. Ben H.
Huggins, G. A.
Hughes, John E.
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Humphrey, H. K.
Huncke, Oswald W.
Hunding, B. N.
Hunt, George L.
Huska, Mrs. Joseph
Hust, George
Huszagh, Ralph D.
Hutchinson, Foye P.
Hutchinson, Samuel S.
Hyatt, R. C.
Ickes, Raymond W.
Idelman, Bernard
Igoe, Michael L.
Ilg, Robert A.
Illich, George M., Jr.
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Ingram, Frank H.
Inlander, N. Newton
Inlander, Samuel
Irons, Dr. Ernest E.
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Isham, Henry P., Jr.
Ives, Clifford E.
Jackson, Allan
Jackson, Archer L.
Jackson, Mrs. Arthur S.
Jackson, Mrs. W. A.
Jacobi, Miss Emily C.
Jacobs, Julius
Jacobs, Mrs. Walter H.
Jacobson, Raphael
James, Walter C.
Jameson, Clarence W.
Jancosek, Thomas A.
Jansey, Dr. Felix
Janson, Dr. C. Helge M.
Janusch, Fred W.
Jarchow, Mrs. C. E.
Jarchow, Charles C.
Jeffries, Dr. Daniel W.
Jenkinson, Mrs. Arthur Gilbert
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Jetzinger, David
Jirgal, John
Jirka, Dr. Frank J.
John, Dr. Findley D.
Johnson, Dr. Adelaide
Johnson, Alvin O.
Johnson, Calmer L.
Johnson, Mrs. Harley Alden
Johnson, Hjalmar W.
Johnson, Norman E.
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Johnson, P. Sveinbjorn
Johnson, Philip C.
Johnston, Edward R.
Johnston, Miss Fannie S.
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Johnston, Mrs. M. L.
Jolly, Miss Eva Josephine
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Jones, Gordon M.
Jones, J. Morris
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Jones, Dr. Margaret M.
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Jones, Miss Susan E.
Joseph, Mrs. Jacob G.
Joseph, Louis L.
Joy, Guy A.
Judson, Clay
Juergens, H. Paul
Julien, Victor R.
Kahn, Mrs. Arthur S.
Kahn, J. Kesner
Kahn, Jerome J.
Kaine, James B.
Kamins, Dr. Maclyn M.
Kane, Jerome M.
Kanter, Jerome J.
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Kaplan, Stanley A.
Kasch, Frederick M.
Katz, Mrs. Sidney L.
Katz, Solomon
Katzenstein, Mrs. George P.
Katzin, Frank
Kauffmann, Alfred
Kaufman, Justin
Kaufmann, Dr. Gustav L.
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Keach, Benjamin
Keare, Mrs. Spencer R.
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Kehoe, Mrs. High Boles

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Kemper, Miss Hilda M.
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Kempner, Stan
Kendrick, John F.
Kennedy, Mrs. E. J.
Kennedy, Lesley
Kennelly, Martin H.
Kenney, Clarence B.
Kenny, Henry
Kent, Dr. O. B.
Kent, Robert H.
Kern, Mrs. August
Kern, H. A.
Kern, Dr. Nicholas H.
Kern, Trude
Kerwin, Edward M.
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Kettering, Mrs.
 Eugene W.
Kew, Mrs. Stephen M.
Kidwell, L. B.
Kiessling, Mrs. Charles S.
Kile, Miss Jessie J.
Kimball, Paul C.
Kimball, William W.
Kimbark, John R.
King, Mrs. Charles G.
King, Clinton B.
King, Harold R.
Kingman, Mrs. Arthur G.
Kinsey, Robert S.
Kirkland, Mrs.
 Weymouth
Kirst, Lyman R.
Kitchell, Howell W.
Kitzelman, Otto
Kleinpell, Dr. Henry H.
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Kleppinger, William H.
Kleutgen, Dr. Arthur C.
Klinetop, Mrs. Charles W.
Knickerbocker, Miss
 Paula
Knight, Howard
Knopf, Andrew J.
Knutson, George H.
Koch, Mrs. Fred J.
Koch, Raymond J.
Koch, Robert J.
Kochs, August
Koehnlein, Wilson O.
Kohler, Eric L.
Kolehmainen, Waino M.
Kopf, Miss Isabel
Kopinski, Louis
Koppenaar, Dr.
 Elizabeth Thompson
Kornblith, Mrs.
 Howard G.
Kosmach, Frank P.
Kosobud, William F.
Kotal, John A.
Kotin, George N.
Koucky, Dr. J. D.
Krafft, Mrs. Walter A.
Kraft, John H.
Kraft, Norman
Kralovec, Emil G.
Kralovec, Mrs. Otto J.
Kraus, Samuel B.
Kraus, William C.
Krautter, L. Martin
Kresl, Carl
Kretschmer,
 Herman L., Jr.
Krez, Leonard O.
Kridner, E. A.
Kroehler, Kenneth
Kroeschell, Robert A.
Kropff, C. G.
Krost, Dr. Gerard N.
Kuehn, A. L.
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Kuhn, Frederick T.
Kuhn, Dr. Hedwig S.
Kunka, Bernard J.
Kunstadter, Albert
Kunstadter, Sigmund W.
Kurfess, John Fredric
Kurtzon, Morris
Kurzdorfer, E. T.
Lacey, Miss Clara R.
Lafin, Miss June
 Atchison
Lafin, Louis E., Jr.
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Lafin, Miss Mary
 Josephine
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Laing, William
Lambert, C. A.
Lambrecht, Carl R., Jr.
Lampert, Wilson W.
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Lane, F. Howard
Lang, Edward J.
Langdon, Lawrence E.
Langenbach, Mrs. Alice R.
Langford, Mrs. Robert E.
Langhorne, George
 Tayloe
Lanman, E. B.
Lansinger, Mrs. John M.
Larimer, Howard S.
Larsen, Samuel A.
Larson, Mrs. Sarah G.
Lassers, Sanford B.
Latshaw, Dr. Blair S.
Lautmann, Herbert M.
Lavers, A. W.
Lavidge, Arthur W.
Law, Mrs. Robert O.
Lawless, Dr. Theodore K.
Lawson, David A.
Lax, John Franklin
Layden, Michael J.
Lazar, Maurice
Leahy, James F.
Leavell, James R.
Le Baron, Miss Edna
Lebold, Samuel N.
Lebolt, John Michael
Lederer, Dr. Francis L.
Lee, David Arthur
Lefens, Miss Katherine J.
Lefens, Walter C.
Lehmann, Robert O.
Leichenko, Peter M.
Leight, Mrs. Albert E.
Leighton, George N.
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Leland, Mrs. Rosco G.
Lennon, George W.
Lenz, J. Mayo
Leonard, Arthur T.
Lerch, William H.
Leslie, Dr. Eleanor I.
Leslie, John Woodworth
Lessman, Gerhard
Le Tournneau, Mrs.
 Robert
Levi, Julian H.
Levinson, Mrs. Salmon O.
Levitan, Benjamin
Levy, Alexander M.
Levy, Arthur G.
Lewendowski,
 Sigmund W.
Lewy, Dr. Alfred
L'Hommedieu, Arthur
Liebenson, Harold A.
Liebman, A. J.
Lill, George, II
Lillyblade, Clarence O.
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Lindheimer, B. F.
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Livingston, Mrs.
 Milton L.
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Lodge, Robert H.
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Loewenberg, M. L.

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 Lotz, Philip W.
 Loucks, Charles O.
 Louer, Albert E. M.
 Louis, Mrs. John J.
 Lovgren, Carl
 Lowell, Arthur J.
 Lucey, Patrick J.
 Ludgin, Earle
 Ludolph, Wilbur M.
 Lunding, Franklin J.
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 Lusk, R. R.
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 Lynch, J. W.
 Lyon, Charles H.

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 MacKenzie, William J.
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 Mackinson, Dr. John C.
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 MacLellan, K. F.
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 Donald
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 Albert F., Jr.
 Madlener, Otto
 Madrin, Mrs. Charles
 Maehler, Edgar E.
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 Magerstadt, Madeline
 Magnus, Albert, Jr.
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 Maher, Mrs. D. W.
 Main, Walter D.
 Majka, F. L.
 Majors, Mrs. B. S.
 Makler, Joseph H.
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 Mandel, Mrs. Aaron W.
 Mandel, Edwin F.
 Mandel, Miss Florence
 Mandel, Mrs. Robert
 Manegold, Mrs.
 Frank W.
 Manierre, Francis E.

Manierre, Louis
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 Mark, Griffith
 Marker, Van E.
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 Marsh, Peter John
 Martin, Mrs. George B.
 Martin, George F.
 Martin, Samuel H.
 Martin, Wells
 Marx, Adolf
 Marzluff, Frank W.
 Marzola, Leo A.
 Mason, Willard J.
 Masse, B. A.
 Masterson, Peter
 Mathesius, Mrs. Walther
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 Maurer, Dr. Siegfried
 Maxant, Basil
 Maxwell, Lloyd R.
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 Mayer, Herman J., Jr.
 Mayer, Isaac H.
 Mayer, Leo
 Mayer, Oscar G.
 Mazurek, Miss Olive
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 Chauncey
 McCormick, Howard H.
 McCormick, Leander J.
 McCormick,
 Robert H., Jr.
 McCrea, Mrs. W. S.
 McCreight, Louis Ralph
 McCutcheon, Mrs.
 John T.
 McDonald, E. F., Jr.
 McDonald, Lewis
 McDougal, C. Bouton
 McDougal, David B.
 McDougal, Mrs. James B.
 McDougal, Mrs. Robert
 McErlean, Charles V.
 McGraw, Max
 McGurn, Matthew S.
 McIlvaine, William B.
 McKinney, Mrs. Hayes
 McLennan, Donald R., Jr.

McLennan, Mrs.
 Donald R., Sr.
 McLennan, William L.
 McMenemy, Logan T.
 McMillan, James G.
 McMillan, John
 McMillan, W. B.
 McNair, F. Chaloner
 McNamara, Louis G.
 McNamee, Peter F.
 McNulty, Joseph D.
 McQuarrie, Mrs. Fannie
 McReynolds, Mrs.
 Ruth M.
 Mead, Dr. Henry C. A.
 Medsker, Dr. Ora L.
 Mehan, Mrs. Georgette
 Meidell, Harold
 Melcher, George Clinch
 Melnick, Leopold B.
 Merrell, John H.
 Merriam, Miss Eleanor
 Merrill, Miss Marion E.
 Merrill, William W.
 Metz, Dr. Arthur R.
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 Meyer, Charles A.
 Meyer, Dr. Charles A.
 Meyer, Charles Z.
 Meyerhoff, A. E.
 Meyers, Erwin A.
 Meyers, Jonas
 Michaels, Everett B.
 Michel, Dr. William J.
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 Midowicz, C. E.
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 Miller, Mrs. George
 Miller, Hyman
 Miller, John S.
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 Beaupre
 Miller, Oren Elmer
 Miller, Oscar C.
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 Miller, R. T., Jr.
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 Mills, Allen G.
 Mills, Lloyd Langdon
 Miner, Dr. Carl S.
 Miner, Wesley A.
 Mitchell, John J.
 Mock, Dr. Harry Edgar

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 Monheimer, Henry I.
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 Moore, Paul
 Moore, Philip Wyatt
 Morey, Dr. Charles W.
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 Elizabeth W.
 Moroni, Aldo L.
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 Morse, Robert H.
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 Mouat, Andrew J.
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 Muehlstein, Mrs. Charles
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 Mueller, Miss Hedwig H.
 Mueller, J. Herbert
 Mulhern, Edward F.
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 Murphy, Joseph D.
 Murphy, O. R.
 Murphy, Robert E.
 Muszynski, John J.
 Myrland, Arthur L.
- Naess, Sigurd E.
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 Nance, Willis D.
 Naumann, Miss Susan
 Nebel, Herman C.
 Neely, Mrs. Lloyd F.
 Nehls, Arthur L.
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 Nelson, Charles G.
 Nelson, Donald M.
 Nelson, James S.
 Nelson, Victor W.
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Smolka, Oscar J.
Smyth, David B.
Snodell, Walter S., Jr.
Snow, Lendol D.
Snyder, Bernard
Snyder, Bernard A.
- Snyder, Richard E.
Soanes, Dr. Sidney V.
Sokol, Miss Mary
Sollitt, Sumner S.
Solomon, Alfred B.
Solomon, Ezra
Soltis, Dr. F. J.
Somerville, Mrs.
William
Sommer, H. Ellsworth
Sommer, Frederick H.
Sommers, Bert Edward
Sonne, Fred T.
Sorenson, Stanley M.
Sorock, Herbert S.
Spalding, Mrs.
Vaughan C., Jr.
Spangler, James C.
Spanik, Miss Anne
Spatta, George
Spaulding, J. B.
Specht, F. W.
Speer, Stanton H.
Speh, John C.
Spencer, William N.
Sperry, Mrs. Albert T.
Sperry, Oliver R.
Spiegel, Miss
Katherine J.
Spiegel, Dr. Manuel
Spiehler, Adolph F.
Spiel, Mrs. Robert E.
Spitz, Milton J.
Spoonier, Dr. Bruce A.
Sprtel, Dr. Simon L.
Squire, D.
Squire, Robert L.
Staack, Dr.
H. Frederick, Jr.
Staat, Richard A.
Staffeld, Byron C.
Stafford, Richard W.
Stafford, Dr. Wilma C.
Stafford, Wirt W.
Stagman, Nathan
Stahl, John
Stair, H. Bowen
Staley, Miss Kate
Stanbery, J. N.
Stang, J. I.
Stange, Howard W.
Stanley, E. V.
Stannard, F. J.
Stanton, Mrs. Francis R.
Stanton, Lyman A.
Starosselsky, Nicholas
Starrett, Miss Carolyn J.
Starshak, A. L.
Stateler, C. B.
Staub, E. Norman
Stauffacher, E. L.
- Stavenhagen, Fred A.
Stavish, Emanuel G.
Steans, Dr. George L.
Stearns, James D.
Stearns, Neele E.
Stearns, Walter
Stebler, W. J.
Steding, Richard P.
Steele, Mrs. Walter D.
Stefan, Joseph J.
Steffen, Charles
Steigmann, Dr.
Frederick
Stein, Mrs. Louise K.
Steiner, George R.
Steiner, Harold C.
Steiner, Miss Joanne
Steins, Mrs. Halsey
Steitz, Mrs. Dorothy J.
Stekly, Harold
Stenhouse, Miss
Bessie C.
Stensland, T. N.
Stephan, Edmund A.
Stephens, Mrs. Arthur I.
Stephens, Dr. Nathalie
Stern, Herbert L.
Stern, Herbert L., Jr.
Stern, Lawrence F.
Stern, Russell T.
Sternberg, Edward
Sternstein, Edward
Stetson, William C.
Steuer, Mrs. Joseph True
Steven, Ian
Stevens, Mrs. Clement D.
Stevens, John Paul
Stevenson, Mrs. Borden
Stevenson, M. Bradley
Stewart, Charles L., Jr.
Stewart, Donald R.
Stewart, George W.
Stewart, Lynn
Stiggleman, James H.
Stiles, J. F., Jr.
Stind, C. J.
Stine, Francis B.
Stiner, Mrs. Norman J.
Stitt, Robert B.
Stix, Lawrence C., Jr.
Stoaks, Richard O.
Stocker, Frederick B., Jr.
Stockton, Joseph D.
Stoddard, Robert M.
Stoffels, Edgar O.
Stofft, Edmond B.
Stoker, Nelson D.
Stokes, Paul M.
Stokesberry, Paul W.
Stolz, Leon
Stone, Dr. F. Lee

ANNUAL MEMBERS (CONTINUED)

- Stone, Mrs. E. J.
 Stone, Herbert Stuart
 Stone, Mrs. J. S.
 Stone, J. McWilliams
 Stone, Marvin N.
 Storer, E. W.
 Storey, Smith W.
 Storkan, Mrs. James
 Stormont, Dr. D. L.
 Stout, Frederick E.
 Straka, Frank B.
 Strassheim, Fred W.
 Stratton, L. W.
 Stratton, Paul
 Stratton, Robert C.
 Straus, Mrs. Robert E.
 Streitmann, Albert P.
 Stresen-Reuter, A. P.
 Stresenreuter, Mrs.
 Charles H.
 Strohmeier, Dr.
 Otto E.
 Stuart, Lyman J.
 Stuart, Robert D., Jr.
 Stuart, William M.
 Stubenrauch, E. H.
 Stucker, Dr. Fred J.
 Stuckslager, Walter N.
 Study, Dr. Robert S.
 Stuebner, Edwin A.
 Stults, Allen P.
 Sturtevant, Roy E.
 Sturtevant, Mrs.
 Roy E.
 Sudler, Carroll H., Jr.
 Sullivan, Eugene T.
 Sullivan, Frank W.
 Sulzberger, Mrs.
 Frank L.
 Sundt, E. V.
 Suomela, John P.
 Suyker, Hector
 Svec, Anton E.
 Svensson, Olof
 Swanson, H. G.
 Swanson, Harry R.
 Swanson, K. G.
 Sweeney, David B.
 Sweet, Mrs. Carroll
 Sweet, Lisle W.
 Swett, Israel
 Swift, Phelps Hoyt
 Swift, T. Philip
 Swoiskin, Dr. Irving
 Swonk, Wayne
 Sykes, Binford H.
 Sykes, Byron M.
 Sylvester, Edmund Q.
 Symonds, Merrill
 Szymanski, Dr.
 Frederick J.
 Talbot, Mrs. C. Conover
 Talbot, Mrs. Eugene S.
 Tallat-Kelpsa, Dr. F.
 Tanan, Stanley J.
 Tansley, Charles B.
 Tarantino, Mrs. Mike
 Tarnopol, Emil
 Tarr, Lester W.
 Tarrson, Albert J.
 Tatge, Paul W.
 Tax, Dr. Sol
 Taylor, Mrs. A. Thomas
 Taylor, Fitzhugh
 Taylor, Mrs. Samuel G.
 Teichen, E. H.
 Tellschow, H. B.
 Templeton, Kenneth S.
 Temps, Leupold
 Teninga, Alfred J.
 Tenney, Henry F.
 Terker, Sam
 Terrill, Dean
 Teter, Park
 Thatcher, Dr. Harold W.
 Thiele, George C.
 Thillens, Melvin
 Thomas, Miss Martha
 Thomas, Norman L.
 Thompson, A. M.
 Thompson, H. Hoyt
 Thompson, Dr. John R.
 Thompson, Dr. W. V.
 Thorek, Dr. Philip
 Thoren, Mrs. J. N.
 Thoresen, H. B.
 Thorson, Reuben
 Thrasher, Dr. Irving D.
 Thullen, Henry M.
 Tiberius, George
 Tieken, Theodore
 Tilden, Merrill W.
 Tillotson, J. W.
 Tinsley, Dr. Milton
 Tippens, Mrs. Albert H.
 Todd, Mrs. E. L.
 Toggweiler, A. A.
 Tolpin, Dr. Samuel
 Tonk, Percy A.
 Tonn, George
 Toomin, Philip R.
 Topaz, Martin
 Topolinski, J. J.
 Torff, Selwyn H.
 Torgerson, Ray G.
 Towns, R. E.
 Trace, Master David R.
 Trace, Master Edward R.
 Trace, Dr. Herbert D.
 Trace, Master Peter A.
 Tracy, Dr. Paul C.
 Tracy, T. J.
 Tracy, Wheeler
 Tracy, Wilfred
 Trager, D. C.
 Trainor, H. J.
 Traut, Bernard H.
 Travelletti, Bruno L.
 Traver, George W.
 Travis, Eugene C.
 Treadway, C. L.
 Treadwell, George P.
 Treffeisen, Gustave
 Tresley, Dr. Ira J.
 Triggs, Warren
 Trimarco, Ralph R.
 Triner, Joseph
 Troeger, Louis P.
 Trumbull, William M.
 Tubutis,
 Walter Stanley, Jr.
 Turgrimson, Charles D.
 Turner, Dr. Herbert A.
 Turner, Oliver S.
 Tyler, Mrs. Ivan L.
 Tyrrell, Miss Frances
 Ughetti, John B.
 Uhlmann, Richard F.
 Ullmann, S. E.
 Ultsch, W. Lewis
 Urbain, Leon F.
 Urban, Andrew
 Uretz, Daniel A.
 Urnes, Dr. M. P.
 Ushijima, Mrs. Ruth
 Vail, Mrs. Daniel M.
 Vail, Donald P.
 Vail, J. Dean, Jr.
 Vale, Mrs. Murray
 Van Buskirk, M. G.
 Vance, Patricia
 Vance, S. M.
 Vanderkloot, Dr. Albert
 Vander Kloot, Nicholas J.
 Vander Ploeg, Frank
 Van Deventer, William E.
 Van Dyk, S. A.
 Van Etten, Floyd G.
 Van Gerpen, George
 Van Kampen, A. H.
 Van Kirk, Mrs. R. D.
 Van Moss, J. H., Jr.
 Van Natta, V. R.
 Van Nice, Errett
 Van Stanten, James
 Van Schaick, Mrs.
 Ethel R.
 Van Swearingen, Guy H.
 Varley, John S.
 Varty, Leo G.
 Vasalle, Master David

ANNUAL MEMBERS (CONTINUED)

- Vasalle, Rudolph A.
 Vaughan, Alan W.
 Vaughan, Norman
 Vaughn, Wilbert T.
 Velvel, Charles
 Velvel, H. R.
 Venema, M. P.
 Venetucci, Pasquale
 Venrick, Mrs. Charles F.
 Verhaag, Dr. Joseph E.
 Vernon, John T.
 Ver Nooy, Miss Winifred
 Vetter, Paul G.
 Vick, Maurice B.
 Victorine, Vernon E.
 Vihon, Charles H.
 Vilsoet, William
 Vogelback, Mrs.
 William E.
 Voigt, Mrs. Wilbur R.
 von Bonin, Dr. Gerhard
 Von Gehr, George
 Von Meerwall-Srutek,
 Ernst Dieter
 Voytech, Charles F.
 Vyse, T. A. E.
- Wach, Dr. Edward C.
 Wachter, Frederick J.
 Wacker, Frederick G., Jr.
 Wadsworth, Charles
 Wagner, Mrs. David H.
 Wagner, John A.
 Wagner, Richard
 Wahl, Orlin I.
 Wakefield, Dr.
 Ernest H.
 Waldie, Benjamin D.
 Waldman, Dr. Albert G.
 Waldner, Arthur L.
 Waldo, C. Ives, Jr.
 Walgren, Lawrence C.
 Walker, Dr. Alfred O.
 Walker, Frank R.
 Walker, Mrs. India A.
 Walker, Reno R.
 Walker, Ward
 Walker, Wendell
 Wall, Dr. Frank J.
 Wallenstein, Sidney
 Waller, Percy H.
 Waller, William, Jr.
 Wallerstein, David B.
 Wallgren, Eric M.
 Wallingford, Donald H.
 Walsh, Donald J.
 Walters, Gary G.
 Waltman, C. E.
 Walz, John W.
 Wanger, David E., Jr.
 Warady, Dr. Seymore C.
- Warde, Frederick A.
 Wardwell, H. F.
 Ware, Mrs. Robert R.
 Ware, Mrs. Thomas M.
 Ware, Willis C.
 Warman, Winfield C.
 Warner, Mason
 Warton, Frank R.
 Washburn, Dr.
 Kenneth C.
 Wasson, Mrs. Isabel B.
 Wasson, Theron
 Waterfield, John R.
 Waterman, Mrs. Alex H.
 Waterstreet, W. Neal
 Watkins, William A. P.
 Watling, John
 Watson, D. R.
 Watt, Andrew J.
 Watt, Howard D.
 Watt, Richard F.
 Watts, Amos H.
 Watts, G. W.
 Weatherby, George W.
 Weathers, Everett A.
 Webb, Dr. Edward F.
 Weber, James E.
 Weber, John J.
 Weber, Miss Laura M.
 Weber, Warren J.
 Webster, Dr. Augusta
 Webster, Frederick F.
 Webster, N. C.
 Wedereit, Gene
 Weeks, Arthur G.
 Weeks, Harrison S.
 Weeks, Kenneth L.
 Wegrzyn, Dr. John T.
 Wegrzyn, Joseph
 Weidert, William C.
 Weigle, Mrs. Maurice
 Weil, Mrs. Carl H.
 Weil, Joseph M.
 Weill, Leonard D.
 Weiner, Aaron B.
 Weiner, Charles
 Weinress, S. J.
 Weinstein, Harold
 Weisbrod, Maxfield
 Weiss, Louis J.
 Weiss, Norman L.
 Weitzel, Carl J.
 Wells, D. P.
 Wells, Mrs. John E.
 Welsh, Vernon M.
 Wenholz, Walter W.
 Wenner, A. T.
 Wenninger, William C.
 Werrenrath, Reinald, Jr.
 Wessling, Richard
 West, James D.
- West, Richard H.
 Westbrook, Charles H.
 Westley, Richard O.
 Wetherell, Warren
 Wetmore, Horace O.
 Weyforth, B. Stuart, Jr.
 Weymouth, Ralph E.
 Whall, Arthur L.
 Wheary, Warren
 Wheaton, David
 Wheeler, Mrs. Seymour
 Wheeler, W. L.
 Whipple, Charles J., Jr.
 Whipple, Gaylord C.
 Whiston, Frank M.
 Whiston, Jerome P.
 White, Marshall
 White, Mrs. Nelson C.
 White, Philip M.
 Whitelock, John B.
 Whitney, Jack M., II
 Whitney, Lafeton
 Wible, R. R.
 Wickersham, Mrs. Lucille
 Wies, H. M.
 Wiggins, Kenneth M.
 Wilby, A. C.
 Wild, Lydon
 Wilder, E. P., Jr.
 Wiles, Bradford
 Wiles, Mrs. Russell
 Wilhelm, Dr. Emanuel C.
 Wilhite, James A.
 Wilkes, Mrs. R. M.
 Willard, Nelson W.
 Willett, Howard L., Jr.
 Williams, Albert W.
 Williams, Bennett
 Williams, Harry J.
 Williams, Robert J.
 Willis, Amos G.
 Willis, George H.
 Willis, Ivan L.
 Wilson, Allen
 Wilson, Allen B.
 Wilson, David M.
 Wilson, E. W.
 Wilson, Harold E.
 Wiltsee, Herbert
 Wiman, Mrs.
 Charles Deere
 Windchy, Mrs.
 Frederick O.
 Winkenweder, V. O.
 Winkler, Edward
 Winsberg, Herbert H.
 Winston, Farwell
 Winter, Mrs. Gibson
 Winterbotham, John R.
 Wirth, J. W.
 Wiseman, William P.

ANNUAL MEMBERS (CONTINUED)

Witherell, James	Worthington, La Grange	Young, Dr. Donald R.
Witte, Lester	Wreath, Robert L.	Young, George B.
Witter, William M.	Wright, Dr. F. Howell	Young, J. L.
Wlocholl, Arthur	Wright, George L.	Young, Rollin R.
Wojnarowsky, Dr.	Wright, Miss	Youngberg, Arthur C.
Emilia	Margaret J.	Youngren, W. W.
Wojteczko, Stanley	Wrightson, William F.	Yust, Walter
Wolbach, Murray, Jr.	Wrisley, George A.	
Wolf, Albert M.	Wronski, Casimir Pulaski	Zadek, Milton
Wolf, C. W.	Wulf, Miss Lydia	Zatz, Sidney R.
Wolf, Morris E.	Wyatt, Harry N.	Zeisler, Dr. Ernest B.
Wolf, Orrin E.	Wybel, L. E.	Zeitlin, Samuel E.
Wood, A. E.		Zelinsky, Mrs. S. F.
Wood, Alexander M.	Yager, Richard Sidney	Zeller, Charles B.
Wood, C. A.	Yamada, Shigeo	Zeller, Joseph C.
Wood, Harold F.	Yarnall, Frank H.	Zimmerman, Austin M.
Wood, Kenward T.	Yates, John E.	Zimmerman, Carl
Wood, Truman	Yates, P. L.	Zimmerman, Dr.
Wood, William A.	Yates, T. L.	Harold W.
Wood, Mrs. William J.	Yavitz, Sidney M.	Zimmerman, Otto H.
Woodall, Lloyd	Yellin, Morris	Zimmermann, Frank O.
Woods, Dr. A. W.	Yeoman, George W.	Zimmermann, Mrs. P. T.
Woodson, William T.	Yesnick, Dr. Louis	Zimmermann, Russell A.
Woolard, Francis C.	Yntema, Dr. Leonard F.	Zitzewitz, Arthur F.
Woollett, Mrs. Jean	Yohe, C. Lloyd	Zitzewitz, Mrs. W. R.
Woolpy, Max	Yonkers, Edward H.	Zoll, William F.
Workman, S. L.	Young, C. S.	Zwiener, Kenneth V.

DECEASED 1957

Archer, Ralph C.	Humphreys, Mrs.	Pruitt, Raymond S.
	Robert E.	
Barancik, Maurice A.	Johnson, Harry G.	Robertson, Egbert
Baroody, E. T.	Keeton, Dr. Robert W.	Saffir, M. A.
Brandt, Richard C.		Schmidt, George A.
Burns, Peter T.	Lee, Miss Alice Stephana	Schneider, Benjamin B.
		Shanner, Charles T.
Eck, Donald R.	Mathewson, Lynn L.	
Edmonds, Robert K.	Nahmens, Paul M.	Thompson, Lang S.
Elkan, Leo H.	Prindiville, James A.	Tuteur, Charles
Haake, Frederick J.		Wolff, Frank C.
Heerey, Bernard A.		Wolff, Oscar M.

Articles of Incorporation

STATE OF ILLINOIS

DEPARTMENT OF STATE

WILLIAM H. HINRICHSEN, *Secretary of State*

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETING:

Whereas, a Certificate duly signed and acknowledged having been filed in the office of the Secretary of State, on the 16th day of September, A.D. 1893, for the organization of the COLUMBIAN MUSEUM OF CHICAGO, under and in accordance with the provisions of "An Act Concerning Corporations," approved April 18, 1872, and in force July 1, 1872, and all acts amendatory thereof, a copy of which certificate is hereto attached.

Now, therefore, I, William H. Hinrichsen, Secretary of State of the State of Illinois, by virtue of the powers and duties vested in me by law, do hereby certify that the said COLUMBIAN MUSEUM OF CHICAGO is a legally organized Corporation under the laws of this State.

In Testimony Whereof, I hereto set my hand and cause to be affixed the Great Seal of State. Done at the City of Springfield, this 16th day of September, in the year of our Lord one thousand eight hundred and ninety-three, and of the Independence of the United States the one hundred and eighteenth.

W. H. HINRICHSEN,
Secretary of State.

[SEAL]

TO HON. WILLIAM H. HINRICHSEN,

SECRETARY OF STATE:

SIR:

We, the undersigned citizens of the United States, propose to form a corporation under an act of the General Assembly of the State of Illinois, entitled "An Act Concerning Corporations," approved April 18, 1872, and all acts amendatory thereof; and that for the purposes of such organization we hereby state as follows, to-wit:

1. The name of such corporation is the "COLUMBIAN MUSEUM OF CHICAGO."

2. The object for which it is formed is for the accumulation and dissemination of knowledge, and the preservation and exhibition of objects illustrating Art, Archaeology, Science and History.

3. The management of the aforesaid museum shall be vested in a Board of FIFTEEN (15) TRUSTEES, five of whom are to be elected every year.

4. The following named persons are hereby selected as the Trustees for the first year of its corporate existence:

Edward E. Ayer, Charles B. Farwell, George E. Adams, George R. Davis, Charles L. Hutchinson, Daniel H. Burnham, John A. Roche, M. C. Bullock, Emil G. Hirsch, James W. Ellsworth, Allison V. Armour, O. F. Aldis, Edwin Walker, John C. Black and Frank W. Gunsaulus.

5. The location of the Museum is in the City of Chicago, County of Cook, and State of Illinois.

(Signed)

George E. Adams, C. B. Farwell, Sidney C. Eastman, F. W. Putnam, Robert McCurdy, Andrew Peterson, L. J. Gage, Charles L. Hutchinson, Ebenezer

Buckingham, Andrew McNally, Edward E. Ayer, John M. Clark, Herman H. Kohlsaat, George Schneider, Henry H. Getty, William R. Harper, Franklin H. Head, E. G. Keith, J. Irving Pearce, Azel F. Hatch, Henry Wade Rogers, Thomas B. Bryan, L. Z. Leiter, A. C. Bartlett, A. A. Sprague, A. C. McClurg, James W. Scott, Geo. F. Bissell, John R. Walsh, Chas. Fitzsimmons, John A. Roche, E. B. McCagg, Owen F. Aldis, Ferdinand W. Peck, James H. Dole, Joseph Stockton, Edward B. Butler, John McConnell, R. A. Waller, H. C. Chatfield-Taylor, A. Crawford, Wm. Sooy Smith, P. S. Peterson, John C. Black, Jno. J. Mitchell, C. F. Gunther, George R. Davis, Stephen A. Forbes, Robert W. Patterson, Jr., M. C. Bullock, Edwin Walker, George M. Pullman, William E. Curtis, James W. Ellsworth, William E. Hale, Wm. T. Baker, Martin A. Ryerson, Huntington W. Jackson, N. B. Ream, Norman Williams, Melville E. Stone, Bryan Lathrop, Eliphalet W. Blatchford, Philip D. Armour.

STATE OF ILLINOIS }
 COOK COUNTY } ss.

I, G. R. MITCHELL, a NOTARY PUBLIC in and for said County, do hereby certify that the foregoing petitioners personally appeared before me and acknowledged severally that they signed the foregoing petition as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this 14th day of September, 1893.

G. R. MITCHELL,

[SEAL]

NOTARY PUBLIC, COOK COUNTY, ILL.

CHANGE IN ARTICLE 1

Pursuant to a resolution passed at a meeting of the corporate members held the 25th day of June, 1894, the name of the COLUMBIAN MUSEUM was changed to FIELD COLUMBIAN MUSEUM. A certificate to this effect was filed June 26, 1894, in the office of the Secretary of State for Illinois.

CHANGE IN ARTICLE 1

Pursuant to a resolution passed at a meeting of the corporate members held the 8th day of November, 1905, the name of the FIELD COLUMBIAN MUSEUM was changed to FIELD MUSEUM OF NATURAL HISTORY. A certificate to this effect was filed November 10, 1905, in the office of the Secretary of State for Illinois.

CHANGE IN ARTICLE 3

Pursuant to a resolution passed at a meeting of the corporate members held the 10th day of May, 1920, the management of FIELD MUSEUM OF NATURAL HISTORY shall be invested in a Board of TWENTY-ONE (21) TRUSTEES, who shall be elected in such manner and for such time and term of office as may be provided for by the By-Laws. A certificate to this effect was filed May 21, 1920, in the office of the Secretary of State for Illinois.

CHANGE IN ARTICLE 1

Pursuant to a resolution passed at a meeting of the corporate members held the 15th day of November, 1943, the name of FIELD MUSEUM OF NATURAL HISTORY was changed to CHICAGO NATURAL HISTORY MUSEUM. A certificate to this effect was filed November 23, 1943, in the office of the Secretary of State for Illinois.

Amended By-Laws

DECEMBER, 1945

ARTICLE I

MEMBERS

SECTION 1. Members shall be of twelve classes, Corporate Members, Honorary Members, Patrons, Corresponding Members, Benefactors, Contributors, Life Members, Non-Resident Life Members, Associate Members, Non-Resident Associate Members, Sustaining Members, and Annual Members.

SECTION 2. The Corporate Members shall consist of the persons named in the articles of incorporation, and of such other persons as shall be chosen from time to time by the Board of Trustees at any of its meetings, upon the recommendation of the Executive Committee; provided, that such person named in the articles of incorporation shall, within ninety days from the adoption of these By-Laws, and persons hereafter chosen as Corporate Members shall, within ninety days of their election, pay into the treasury the sum of Twenty Dollars (\$20.00) or more. Corporate Members becoming Life Members, Patrons or Honorary Members shall be exempt from dues. Annual meetings of said Corporate Members shall be held at the same place and on the same day that the annual meeting of the Board of Trustees is held.

SECTION 3. Honorary Members shall be chosen by the Board from among persons who have rendered eminent service to science, and only upon unanimous nomination of the Executive Committee. They shall be exempt from all dues.

SECTION 4. Patrons shall be chosen by the Board upon recommendation of the Executive Committee from among persons who have rendered eminent service to the Museum. They shall be exempt from all dues, and, by virtue of their election as Patrons, shall also be Corporate Members.

SECTION 5. Any person contributing or devising the sum of One Hundred Thousand Dollars (\$100,000.00) in cash, or securities, or property to the funds of the Museum, may be elected a Benefactor of the Museum.

SECTION 6. Corresponding Members shall be chosen by the Board from among scientists or patrons of science residing in foreign countries, who render important service to the Museum. They shall be elected by the Board of Trustees at any of its meetings. They shall be exempt from all dues and shall enjoy all courtesies of the Museum.

SECTION 7. Any person contributing to the Museum One Thousand Dollars (\$1,000.00) or more in cash, securities, or material, may be elected a Contributor of the Museum. Contributors shall be exempt from all dues and shall enjoy all courtesies of the Museum.

SECTION 8. Any person paying into the treasury the sum of Five Hundred Dollars (\$500.00) at any one time, shall, upon the unanimous vote of the Board, become a Life Member. Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to members of the Board of Trustees. Any person residing fifty miles or more from the city of Chicago, paying into the treasury the sum of One Hundred Dollars (\$100.00) at any one time, shall, upon the unanimous vote of the Board, become a Non-Resident Life Member. Non-Resident Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to members of the Board of Trustees.

SECTION 9. Any person paying into the treasury of the Museum the sum of One Hundred Dollars (\$100.00) at any one time, shall, upon the vote of the Board,

become an Associate Member. Associate Members shall be exempt from all dues, and shall be entitled to tickets admitting Member and members of family, including non-resident home guests; all publications of the Museum issued during the period of their membership, if so desired; reserved seats for all lectures and entertainments under the auspices of the Museum, provided reservation is requested in advance; and admission of holder of membership and accompanying party to all special exhibits and Museum functions day or evening. Any person residing fifty miles or more from the city of Chicago, paying into the treasury the sum of Fifty Dollars (\$50.00) at any one time, shall, upon the unanimous vote of the Board, become a Non-Resident Associate Member. Non-Resident Associate Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to Associate Members.

SECTION 10. Sustaining Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of Twenty-five Dollars (\$25.00), payable within thirty days after notice of election and within thirty days after each recurring annual date. This Sustaining Membership entitles the Member to free admission for the Member and family to the Museum on any day, the Annual Report and such other Museum documents or publications issued during the period of their membership as may be requested in writing. When a Sustaining Member has paid the annual fee of \$25.00 for six years, such Member shall be entitled to become an Associate Member.

SECTION 11. Annual Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of Ten Dollars (\$10.00), payable within thirty days after each recurring annual date. An Annual Membership shall entitle the Member to a card of admission for the Member and family during all hours when the Museum is open to the public, and free admission for the Member and family to all Museum lectures and entertainments. This membership will also entitle the holder to the courtesies of the membership privileges of every museum of note in the United States and Canada, so long as the existing system of co-operative interchange of membership tickets shall be maintained, including tickets for any lectures given under the auspices of any of the museums during a visit to the cities in which the co-operative museums are located.

SECTION 12. All membership fees, excepting Sustaining and Annual, shall hereafter be applied to a permanent Membership Endowment Fund, the interest only of which shall be applied for the use of the Museum as the Board of Trustees may order.

ARTICLE II

BOARD OF TRUSTEES

SECTION 1. The Board of Trustees shall consist of twenty-one members. The respective members of the Board now in office, and those who shall hereafter be elected, shall hold office during life. Vacancies occurring in the Board shall be filled at a regular meeting of the Board, upon the nomination of the Executive Committee made at a preceding regular meeting of the Board, by a majority vote of the members of the Board present.

SECTION 2. Regular meetings of the Board shall be held on the third Monday of the month. Special meetings may be called at any time by the President, and shall be called by the Secretary upon the written request of three Trustees. Five Trustees shall constitute a quorum, except for the election of officers or the adoption of the Annual Budget, when seven Trustees shall be required, but meetings may be adjourned by any less number from day to day, or to a day fixed, previous to the next regular meeting.

SECTION 3. Reasonable written notice, designating the time and place of holding meetings, shall be given by the Secretary.

ARTICLE III

HONORARY TRUSTEES

SECTION 1. As a mark of respect, and in appreciation of services performed for the Institution, any Trustee who by reason of inability, on account of change

of residence, or for other cause or from indisposition to serve longer in such capacity shall resign his place upon the Board, may be elected, by a majority of those present at any regular meeting of the Board, an Honorary Trustee for life. Such Honorary Trustee will receive notice of all meetings of the Board of Trustees, whether regular or special, and will be expected to be present at all such meetings and participate in the deliberations thereof, but an Honorary Trustee shall not have the right to vote.

ARTICLE IV

OFFICERS

SECTION 1. The officers shall be a President, a First Vice-President, a Second Vice-President, a Third Vice-President, a Secretary, an Assistant Secretary and a Treasurer. They shall be chosen by ballot by the Board of Trustees, a majority of those present and voting being necessary to elect. The President, the First Vice-President, the Second Vice-President, and the Third Vice-President shall be chosen from among the members of the Board of Trustees. The meeting for the election of officers shall be held on the third Monday of January of each year, and shall be called the Annual Meeting.

SECTION 2. The officers shall hold office for one year, or until their successors are elected and qualified, but any officer may be removed at any regular meeting of the Board of Trustees by a vote of two-thirds of all the members of the Board. Vacancies in any office may be filled by the Board at any meeting.

SECTION 3. The officers shall perform such duties as ordinarily appertain to their respective offices, and such as shall be prescribed by the By-Laws, or designated from time to time by the Board of Trustees.

ARTICLE V

THE TREASURER

SECTION 1. The Treasurer shall be custodian of the funds of the Corporation, except as hereinafter provided. He shall make disbursements only upon warrants, signed by such officer, or officers, or other persons as the Board of Trustees may from time to time designate.

SECTION 2. The securities and muniments of title belonging to the corporation shall be placed in the custody of some Trust Company of Chicago to be designated by the Board of Trustees, which Trust Company shall collect the income and principal of said securities as the same become due, and pay same to the Treasurer, except as hereinafter provided. Said Trust Company shall allow access to and deliver any or all securities or muniments of title to the joint order of the following officers, namely: the President or one of the Vice-Presidents, jointly with the Chairman, or one of the Vice-Chairmen, of the Finance Committee of the Museum. The President or any one of the Vice-Presidents, jointly with either the Chairman or any one of the other members of the Finance Committee, are authorized and empowered (a) to sell, assign and transfer as a whole or in part the securities owned by or registered in the name of the Chicago Natural History Museum, and, for that purpose, to endorse certificates in blank or to a named person, appoint one or more attorneys, and execute such other instruments as may be necessary, and (b) to cause any securities belonging to this Corporation now, or acquired in the future, to be held or registered in the name or names of a nominee or nominees designated by them.

SECTION 3. The Treasurer shall give bond in such amount, and with such sureties as shall be approved by the Board of Trustees.

SECTION 4. The Harris Trust & Savings Bank of Chicago shall be Custodian of "The N. W. Harris Public School Extension of the Chicago Natural History Museum" fund. The bank shall make disbursements only upon warrants drawn by the Director and countersigned by the President. In the absence or inability of the Director, warrants may be signed by the Chairman of the Finance Committee, and in the absence or inability of the President, may be countersigned by one of the Vice-Presidents, or any member of the Finance Committee.

ARTICLE VI

THE DIRECTOR

SECTION 1. The Board of Trustees shall elect a Director of the Museum, who shall remain in office until his successor shall be elected. He shall have immediate charge and supervision of the Museum, and shall control the operations of the Institution, subject to the authority of the Board of Trustees and its Committees. The Director shall be the official medium of communication between the Board, or its Committees, and the scientific staff and maintenance force.

SECTION 2. There shall be four scientific Departments of the Museum—Anthropology, Botany, Geology, and Zoology—each under the charge of a Chief Curator, subject to the authority of the Director. The Chief Curators shall be appointed by the Board upon the recommendation of the Director, and shall serve during the pleasure of the Board. Subordinate staff officers in the scientific Departments shall be appointed and removed by the Director upon the recommendation of the Chief Curators of the respective Departments. The Director shall have authority to employ and remove all other employees of the Museum.

SECTION 3. The Director shall make report to the Board at each regular meeting, recounting the operations of the Museum for the previous month. At the Annual Meeting, the Director shall make an Annual Report, reviewing the work for the previous year, which Annual Report shall be published in pamphlet form for the information of the Trustees and Members, and for free distribution in such number as the Board may direct.

ARTICLE VII

THE AUDITOR

SECTION 1. The Board shall appoint an Auditor, who shall hold his office during the pleasure of the Board. He shall keep proper books of account, setting forth the financial condition and transactions of the Corporation, and of the Museum, and report thereon at each regular meeting, and at such other times as may be required by the Board. He shall certify to the correctness of all bills rendered for the expenditure of the money of the Corporation.

ARTICLE VIII

COMMITTEES

SECTION 1. There shall be five Committees, as follows: Finance, Building, Auditing, Pension, and Executive.

SECTION 2. The Finance Committee shall consist of not less than five or more than seven members, the Auditing and Pension Committees shall each consist of three members, and the Building Committee shall consist of five members. All members of these four Committees shall be elected by ballot by the Board at the Annual Meeting, and shall hold office for one year, and until their successors are elected and qualified. In electing the members of these Committees, the Board shall designate the Chairman and Vice-Chairman by the order in which the members are named in the respective Committee; the first member named shall be Chairman, the second named the Vice-Chairman, and the third named, Second Vice-Chairman, succession to the Chairmanship being in this order in the event of the absence or disability of the Chairman.

SECTION 3. The Executive Committee shall consist of the President of the Board, the Chairman of the Finance Committee, the Chairman of the Building Committee, the Chairman of the Auditing Committee, the Chairman of the Pension Committee, and three other members of the Board to be elected by ballot at the Annual Meeting.

SECTION 4. Four members shall constitute a quorum of the Executive Committee, and in all standing Committees two members shall constitute a quorum. In the event that, owing to the absence or inability of members, a quorum of the regularly elected members cannot be present at any meeting of any Committee, then the Chairman thereof, or his successor, as herein provided, may summon any members of the Board of Trustees to act in place of the absentee.

SECTION 5. The Finance Committee shall have supervision of investing the endowment and other funds of the Corporation, and the care of such real estate as may become its property. It shall have authority to make and alter investments from time to time, reporting its actions to the Board of Trustees. The Finance Committee is fully authorized to cause any funds or investments of the Corporation to be made payable to bearer, and it is further authorized to cause real estate of the Corporation, its funds and investments, to be held or registered in the name of a nominee selected by it.

SECTION 6. The Building Committee shall have supervision of the construction, reconstruction, and extension of any and all buildings used for Museum purposes.

SECTION 7. The Executive Committee shall be called together from time to time as the Chairman may consider necessary, or as he may be requested to do by three members of the Committee, to act upon such matters affecting the administration of the Museum as cannot await consideration at the Regular Monthly Meetings of the Board of Trustees. It shall, before the beginning of each fiscal year, prepare and submit to the Board an itemized Budget, setting forth the probable receipts from all sources for the ensuing year, and make recommendations as to the expenditures which should be made for routine maintenance and fixed charges. Upon the adoption of the Budget by the Board, the expenditures stated are authorized.

SECTION 8. The Auditing Committee shall have supervision over all accounting and bookkeeping, and full control of the financial records. It shall cause the same, once each year, or oftener, to be examined by an expert individual or firm, and shall transmit the report of such expert individual or firm to the Board at the next ensuing regular meeting after such examination shall have taken place.

SECTION 9. The Pension Committee shall determine by such means and processes as shall be established by the Board of Trustees to whom and in what amount the Pension Fund shall be distributed. These determinations or findings shall be subject to the approval of the Board of Trustees.

SECTION 10. The Chairman of each Committee shall report the acts and proceedings thereof at the next ensuing regular meeting of the Board.

SECTION 11. The President shall be ex-officio a member of all Committees and Chairman of the Executive Committee. Vacancies occurring in any Committee may be filled by ballot at any regular meeting of the Board.

ARTICLE IX

NOMINATING COMMITTEE

SECTION 1. At the November meeting of the Board each year, a Nominating Committee of three shall be chosen by lot. Said Committee shall make nominations for membership of the Finance Committee, the Building Committee, the Auditing Committee, and the Pension Committee, and for three members of the Executive Committee, from among the Trustees, to be submitted at the ensuing December meeting and voted upon at the following Annual Meeting in January.

ARTICLE X

SECTION 1. Whenever the word "Museum" is employed in the By-Laws of the Corporation, it shall be taken to mean the building in which the Museum as an Institution is located and operated, the material exhibited, the material in study collections, or in storage, furniture, fixtures, cases, tools, records, books, and all appurtenances of the Institution and the workings, researches, installations, expenditures, field work, laboratories, library, publications, lecture courses, and all scientific and maintenance activities.

SECTION 2. The By-Laws, and likewise the Articles of Incorporation, may be amended at any regular meeting of the Board of Trustees by a vote in favor thereof of not less than two-thirds of all the members present, provided the amendment shall have been proposed at a preceding regular meeting.

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